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User's Guide

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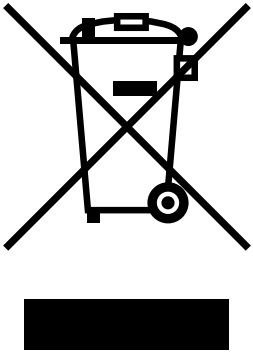

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1 Introduction

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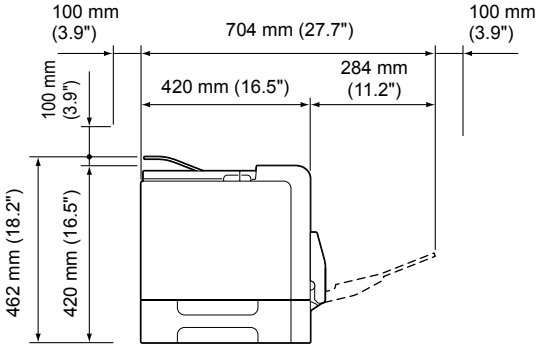
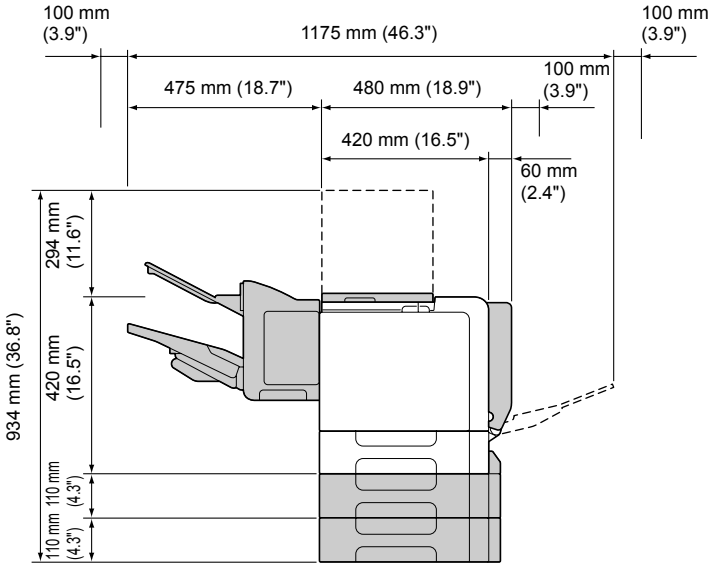
Getting Acquainted with Your Printer

Space Requirements

To ensure easy operation, consumable replacement and maintenance, adhere to the recommended space requirements detailed below.



Front View



Front View with Options

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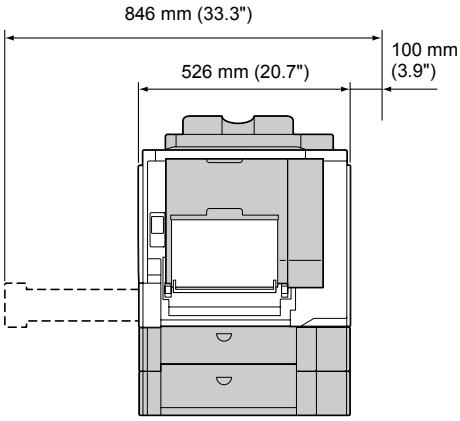

Side View with Options

The options appear shaded in the above illustrations.

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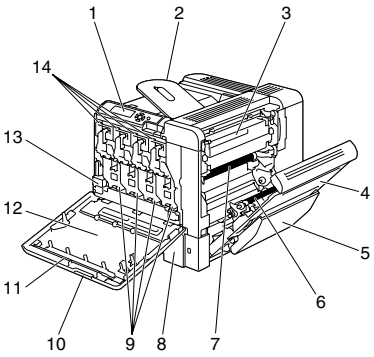
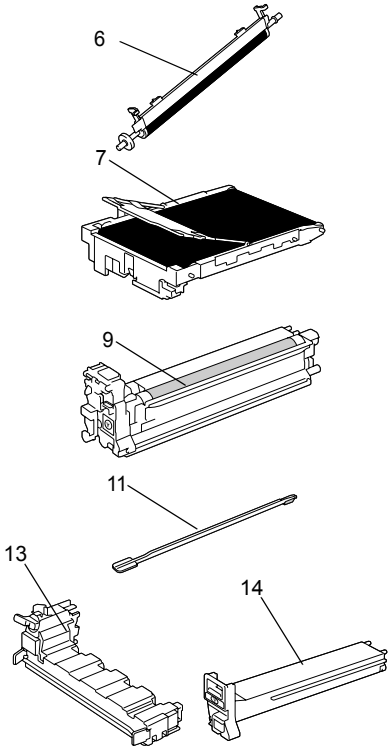
Printer Parts

The following drawings illustrate the parts of your printer referred to throughout this guide, so please take some time to become familiar with them.

Front View

1—Control panel
2—Output tray
3—Fuser unit
4—Right side cover
5—Tray 1 (Manual feed tray)
6—Transfer roller
7—Transfer belt unit
8—Tray 2
9—Print unit
10—Grip
11—Laser lens cleaning tool
12—Front cover
13—Waste toner bottle
14—Toner cartridge





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Rear View

1—KONICA MINOLTA Digital Camera Direct Print Port

2—Power switch

3—Ozone filter

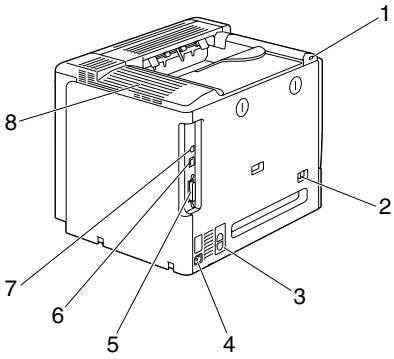
4—Power connection

5—Parallel port

6—10Base-T/100Base-TX/ 1000Base-T Ethernet Interface port

7—USB port

8—Ventilation grilles

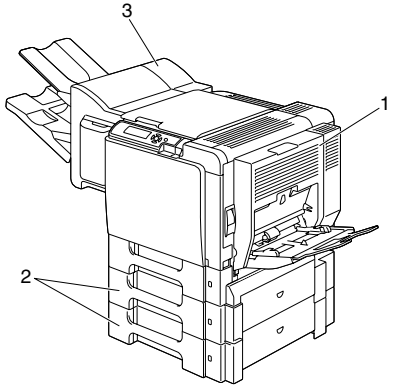


Front View with Options

1—Duplex option

2—Lower feeder units (Tray 3 and Tray 4)

3—Staple Finisher



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2 About the Software

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Printer Driver CD-ROM

PostScript Drivers

Operating System	Use/Benefit
Windows Vista/XP/Server 2003/ 2000	These drivers give you access to all of the printer features, including finishing and advanced layout. See also “Displaying Printer Driver Settings (for Windows)” on page 15.
Windows Vista/XP/ Server 2003 for 64bit	

A specific PPD file has been prepared for applications (such as PageMaker and Corel Draw) that require that a PPD file be specified when printing.
When specifying a PPD file while printing on Windows Vista, XP, Server 2003 and 2000, use the specific PPD file provided on the Printer Driver CD-ROM.

PCL Drivers

Operating System	Use/Benefit
Windows Vista/XP/Server 2003/ 2000	These drivers give you access to all of the printer features, including finishing and advanced layout. See also “Displaying Printer Driver Settings (for Windows)” on page 15.
Windows Vista/XP/ Server 2003 for 64bit	

XPS Driver

Operating System	Use/Benefit
Windows Vista Windows Vista for 64bit	These mini drivers for Windows Vista are based on the Windows core. For details on the installation method and functions, refer to the Reference Guide on the Utilities and Documentation CD-ROM.

The XPS driver cannot be installed by using the auto-play installation feature of the Printer Driver CD-ROM.

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PPD Files

Operating System	Use/Benefit
Macintosh OS X	These files are required in order to use the printer driver for each operating system. For details of the Macintosh and Linux printer drivers, refer to the Reference Guide on the Utilities and Documentation CD-ROM.
Linux	

For details on the installation of the Windows printer drivers, refer to the Installation Guide on the Utilities and Documentation CD-ROM.

Utilities and Documentation CD-ROM

Utilities

Utility	Use/Benefit
Download Manager (Windows Vista/XP/Server 2003/ 2000, Macintosh OS 10.2.x or later)	This utility, which can be used only if an optional hard disk kit is installed, enables fonts and overlay data to be downloaded to the printer hard disk drive. For details, refer to the Download Manager online help for all of the functions.
Status Monitor (Windows only)	The current status of the printer in addition to the status of consumables and error information can be viewed. For details, refer to “Using the Status Monitor (Windows Only)” on page 23
PageScope Net Care	Printer management functions such as status monitoring and network settings can be accessed. For details, refer to the PageScope Net Care Quick Guide on the Utilities and Documentation CD-ROM.

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Utility	Use/Benefit
PageScope Web Connection	With a Web browser, the status of printers can be checked, and the various settings can be changed. For details, refer to the Reference Guide on the Utilities and Documentation CD-ROM.
PageScope Network Setup	Using the TCP/IP and IPX protocols, basic network printer settings can be specified. For details, refer to the PageScope Network Setup User Manual on the Utilities and Documentation CD-ROM.
PageScope Plug and Print	This utility automatically detects a new printer connected to the network and creates a print object on the Windows print server. For details, refer to the PageScope Plug and Print Quick Guide on the Utilities and Documentation CD-ROM.
PageScope NDPS Gateway	This network utility enables printers and KONICA MINOLTA multifunctional products to be used in an NDPS environment. For details, refer to the PageScope NDPS Gateway User Manual on the Utilities and Documentation CD-ROM.
PageScope Direct Print	This application provides functions for sending PDF and TIFF files directly to a printer to be printed. For details, refer to the PageScope Direct Print Users Guide on the Utilities and Documentation CD-ROM.

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System Requirements

- Personal computer
  - Pentium 2: 400 MHz (Pentium 3: 500 MHz or higher is recommended)
  - Power Mac G3 or later (G4 or later is recommended)
  - Macintosh equipped with an intel processor
- Operating System
  - Microsoft Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Vista Home Basic /Home Premium /Ultimate/Business /Enterprise x64 Edition,
    Windows XP Home Edition/Professional (Service Pack 1 or later; Service Pack 2 or later is recommended),
    Windows XP Professional x64 Edition, Windows Server 2003,
    Windows Server 2003 x64 Edition, Windows 2000 (Service Pack 4 or later)
  - Mac OS X (10.2 or later; We recommend installing the newest patch), Mac OS X Server (10.2 or later)
  - Red Hat Linux 9.0, SuSE Linux 8.2
- Free hard disk space
  - Approximately 20 MB of free hard disk space for printer driver and Status Monitor
  - Approximately 128 MB of free hard disk space for image processing
- RAM
  128 MB or more
- CD/DVD-ROM drive
- I/O interface
  - 10Base-T/100Base-TX/1000Base-T Ethernet interface port
  - USB Revision 2.0 compliant port
  - Parallel (IEEE 1284) port

For details of the Macintosh and Linux printer drivers, refer to the Reference Guide on the Utilities and Documentation CD-ROM.

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Selecting Driver Options/Defaults (for Windows)

Before you start working with your printer, you are advised to verify/change the default driver settings. Also, in case you have options installed, you should “declare” the options in the driver.

Windows Vista/XP/Server 2003/2000

1 Choose the driver’s properties as follows:

- (Windows Vista)
  From the **Start** menu, click **Control Panel,** then **Hardware and Sound**, and then click **Printers** to open the Printers directory. Right-click the KONICA MINOLTA bizhub C31P PCL6 or KONICA MINOLTA bizhub C31P PS printer icon, and then click **Properties**.
- (Windows XP/Server 2003)
  From the **Start** menu, choose **Printers and Faxes** to display the **Printers and Faxes** directory. Right-click the KONICA MINOLTA bizhub C31P PCL6 or KONICA MINOLTA bizhub C31P PS printer icon, and then click **Properties**.
- (Windows 2000)
  From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** directory. Right-click the KONICA MINOLTA bizhub C31P PCL6 or KONICA MINOLTA bizhub C31P PS printer icon, and then click **Properties**.

2 If you have installed options, proceed with the next step. Otherwise, skip to step 9.

3 Select the **Configure** tab.

4 Check that the installed options are correctly listed. If not, proceed with the next step. Otherwise, continue with step 8.

5 Click the **Refresh** to automatically configure installed options.

*The **Refresh** is available only if bi-directional communication is available with the printer; otherwise it is grayed out.*

6 From the **Device Options** list, select an option one at a time, and then select **Enable** or **Disable** from the **Settings** menu.

*If **Printer Memory** is selected, select **256 MB**, **512 MB**, **768 MB** or **1024 MB**, according to the installed memory. The factory default setting is **256 MB**.*

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*If **Memory Card** is selected, select **Disable**, **Enable (1 GB Under)**, or **Enable (1 GB Over)**, according to the installed CompactFlash card.*

7 Click **Apply**.

*Depending on the version of the operating system, **Apply** may not appear. If this is the case, continue with the next step.*

8 Select the **General** tab.

9 Click **Printing Preferences**.
Printing Preference dialog box appears.

10 Select the default settings for your printer, such as the default media format you use, on the appropriate tabs.

11 Click **Apply**.

12 Click **OK** to exit from the Print preference dialog box.

13 Click **OK** to exit from the Properties dialog box.

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Uninstalling the Printer Driver (for Windows)

This section describes how to uninstall the printer driver if necessary.

Windows Vista/XP/Server 2003/2000

1 Close all applications.

2 Choose the Uninstall Program as follows:

- (Windows Vista/XP/Server 2003)
  From the **Start** menu, choose **All programs**, **KONICA MINOLTA**, **bizhub C31P**, and then **Uninstall Printer Driver**.
- (Windows 2000)
  From the **Start** menu, choose **Programs**, **KONICA MINOLTA**, **bizhub C31P**, and then **Uninstall Printer Driver**.

3 When the Uninstall dialog box appears, select the name of the driver to be deleted, and then click the **Uninstall** button.

4 Click **Uninstall**.

5 Click **OK**, and restart your computer.

6 The printer driver will be uninstalled from your computer.

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Displaying Printer Driver Settings (for Windows)

Windows Vista

1 From the **Start** menu, click **Control Panel**, then **Hardware and Sound**, and then click **Printers** to open the Printers directory.

2 Right-click the KONICA MINOLTA bizhub C31P PCL6, or KONICA MINOLTA bizhub C31P PS printer icon, and then click **Printing Preferences**.

Windows XP/Server 2003

1 From the **Start** menu, choose **Printers and Faxes** to display the **Printers and Faxes** directory.

2 Right-click the KONICA MINOLTA bizhub C31P PCL6, or KONICA MINOLTA bizhub C31P PS printer icon and choose **Printing Preferences**.

Windows 2000

1 From the **Start** menu, point to **Settings**, and then click **Printers** to display the **Printers** directory.

2 Right-click the KONICA MINOLTA bizhub C31P PCL6, or KONICA MINOLTA bizhub C31P PS printer icon and choose **Printer Properties**.

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Using the Postscript and PCL Printer Driver

Common Buttons

The buttons described below appear on each tab.

OK

Click to exit the Properties dialog box, saving any changes made.

Cancel

Click to exit the Properties dialog box without saving any changes made.

Apply

Click to save all changes without exiting the Properties dialog box.

Help

Click to view the help.

Favorite Setting

This allows the current settings to be saved. To save the current settings, specify the desired settings, and then click **Add**. Specify the settings described below, and the click **OK**.

- **Name:** Type in the name of the settings to be saved.
- **Comment:** Add a simple comment to the settings to be saved.
- **Icon:** Select an icon from the icon list to easily identify the settings. The selected icon appears in the drop-down list.
- **Sharing:** Specify whether or not the settings to be saved can be used by other users logged onto the computer.

Afterward, the saved settings can be selected from the drop-down list. To change the registered setting, click **Edit**.

Select **Defaults** from the drop-down list to reset the functions in all tabs to their default values.

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Paper View

Click the button to display a sample of the page layout in the figure area.

*This button does not appear on the **Quality Version** tab.*

Printer View

Click the button to display an image of the printer (with all installed options) in the figure area.

Quality View

Click this button to display a sample of the settings selected in the **Quality** tab.

*This button appears only when the **Quality** tab is selected.*

Printer Information

Click this button to start PageScope Web Connection.

This button is available when network is connected.

Default

Click this button to reset the settings to their defaults.

Advanced Tab (PostScript Printer Driver Only)

The Advanced Tab allows you to

- Select whether to enable or disable the settings for advanced printing functions (such as booklet printing)
- Specify the PostScript output method
- Specify whether or not the error messages of a print job are printed
- Print a mirror image
- Specify whether or not the application can directly output PostScript data

Basic Tab

The Basic Tab allows you to

- Specify the orientation of the media

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- Specify the size of the original document
- Select the output media size
- Zoom (expand/reduce) documents
- Specify the paper source
- Specify the type of media
- Save a print job on the printer and print it later (Job Retention)
- Save a confidential job on the printer and protect it with a password
- Print a single copy for proofing
- Specify user settings (job name for stored job printing and password for secured job printing)
- Specify user authentication and account track settings
- Specify the number of copies
- Turn on/off job collation
- Turn on/off offset
- Print on the back side of paper that has already been printed on

Use paper that has been printed on with this printer.
In addition, the page printed with this setting is not guaranteed.

Do not use the following types of paper.
- Paper that has been printed on with an inkjet printer
- Paper that has been printed on with a monochrome/color lase printer/copier
- Paper that has been printed on with any other printer or fax machine

Layout Tab

The Layout Tab allows you to

- Print several pages of a document on the same page (N-up printing)
- Print a single copy for enlargement and print several pages (PCL printer driver only)
- Rotate the print image 180 degrees
- Specify whether or not blank pages are printed (PCL printer driver only)
- Specify duplex (double-sided) printing
- Specify booklet printing
- Specify the position on the paper where the document is to be printed
- Adjust the binding margin (PCL printer driver only)
- Adjust the printing position (PCL printer driver only)

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Finish tab

The Finish Tab allows you to

- Select whether or not to staple with the staple finisher
- Select the output tray for the staple finisher

Cover Page Tab

The Cover Page Tab allows you to

- Print front and back cover pages and separator pages
- Specify the tray that contains the paper for the front and back cover pages and separator pages

Watermark/Overlay Tab

Be sure to use overlays with print jobs with a paper size and orientation that matches the overlay form.
In addition, if settings have been specified for "N-up" or "Booklet" in the printer driver, the overlay form cannot be adjusted to match the specified settings.

The settings in the "Overlay" function of the Watermark/Overlay tab allows you to

- Select the form to use
- Add or delete overlay files
- Launch Download Manager to download a form (PostScript printer driver only)

Download Manager Application should be installed earlier.

- Create a form (PCL printer driver only)
- Specify that the document and form are printed overlapping (PCL printer driver only)
- Display the form information (PCL printer driver only)
- Print the form on All Pages, First Page, Even Pages and Odd Pages
- Place the form in back of the document or in front on the printed document (PCL printer driver only)

The settings in the "Watermark" function of the Watermark/Overlay tab allows you to

- Select the watermark to be used
- Create, edit or delete watermarks
- Lighten the density of the watermark

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- Print a frame around watermarks
- Print transparent (shaded) watermarks
- Print the watermark on only the first page
- Print the watermark repeatedly throughout the all pages

Quality Tab

The Quality Tab allows you to

- Switch between color and grayscale printing
- Control the darkness of an image (Brightness)
- Control the tones of an image (Contrast) (PCL printer driver only)
- Specify the printer color settings (Quick Color)
- Specify the amount of details in graphic patterns (PCL printer driver only)
- Specify the image compression method (PCL printer driver only)
- Turn on/off glossy mode
- Perform color separation
- Select whether or not economy printing is used
- Set the edge strength to Low, Middle or High
- Specify the format of fonts that are to be downloaded
- Print using the printer's fonts

Other Tab

The Other Tab allows you to

- Select that Microsoft Excel sheets are not to be divided when printing
- Select that while background of Microsoft Power Point data does not hide overlay files (PCL printer driver only)
- Send a notification by e-mail when printing is finished
- Prevent loss when printing fine lines
- Shows the version information for the printer driver

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Limitations on printer driver functions installed with Point and Print

If Point and Print is performed with the following server and client combinations, there are limitations on some printer driver functions.

- Server and client combinations
  Server: Windows Vista/XP/Server 2003/2000
  Client: Windows Vista/XP/Server 2003/2000
- Functions with limitations applied
  Booklet, Skip Blank Pages, Front Cover Page, Back Cover Page, Separator Page, Create Overlay, Print Overlay, Watermark
  *JOBNAME, USERNAME, and HOSTNAME output of PJL

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3

Using the Status Monitor (Windows Only)

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Working with the Status Monitor

Introduction

The Status Monitor shows information about the current status of the printer.

The Status Monitor can be installed from the Utilities and Documentation CD-ROM.

For details on the installation, refer to the Reference Guide on the Utilities and Documentation CD-ROM.

Operating Environment

The Status Monitor can be used on computers running Windows Vista/XP/Server 2003/2000 connected to the printer using an Ethernet connection.

Opening the Status Monitor

Use one of the following steps to open the Status Monitor:

- **Windows Vista/XP/Server 2003**—From the **Start** menu, choose **All Programs**, **KONICA MINOLTA**, and then **Status Monitor**. Double-click the Status Monitor icon displayed in the taskbar.
- **Windows 2000**—From the **Start** menu, choose **Programs**, **KONICA MINOLTA**, and then **Status Monitor**. Double-click the Status Monitor icon displayed in the taskbar.

Using the Status Monitor

Status Tab

- **Select Printer**—Selects the printer whose status is displayed. In addition, the messages that appear in the message window of the selected printer are displayed.
- **Graphic**—Shows a graphic representation of the printer and indicates where the problem is. When the background of the printer graphic is red or yellow, there is an error and the job has been interrupted.
- **Advanced Options**—Click **Advanced Options** to display the Advanced Options dialog box. From the Advanced Options dialog box, select whether the Status Monitor automatically starts when the operating system is started.
- **Printer Alerts**—Displays text messages that alert you of conditions such as low toner.

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- **Recovery Instructions**—Provides you with explanations of what you need to do in order to correct problems and recover from error conditions.

Consumables Tab

Displays the usage status (approximate percentage remaining) of each toner consumables.

- **Refresh**—Rechecks the supplies and displays their status.

*Click **Help** to display windows containing explanations of the Status Monitor functions. Refer to this help for detailed information.*

Recognizing Status Monitor Alerts

When the Status Monitor detects a printing problem, the icon on the Windows task bar changes from green (normal) to yellow (warning), magenta or red (error), depending on the severity of the printer problem.

Recovering from a Status Monitor Alert

When the Status Monitor notifies you of a printing problem, double-click its icon on the Windows task bar to open the Status Monitor. The Status Monitor identifies what type of error has occurred.

Closing the Status Monitor

Click **Close** to close the Status Monitor window. To exit Status Monitor, right-click the Status Monitor icon in the taskbar, and then click **Exit**.

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4

Printer Control Panel and Configuration Menu

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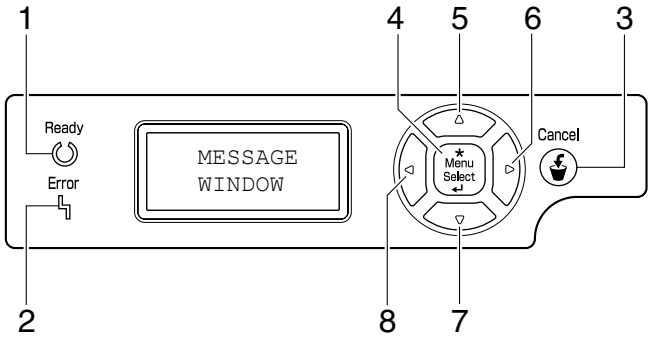
About the Control Panel

The control panel located on the top of the printer allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.



Control Panel Indicators and Keys

No.	Indicator	Off	On
1	Ready	The printer is not ready to accept data.	The printer is ready to accept data. (Flashes while data is being received or while printing.)
2	Error	No problem.	The printer requires operator attention. (usually accompanied by a status message in the message window.)

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No.	Key	Function
3	Cancel	■ Cancels the currently displayed menu or menu choice ■ Allows you to cancel one or all print jobs that are currently being printed or processed: 1. Press the **Cancel** key. 2. Press the △ or ▽ keys to select either CURRENT JOB or ALL JOBS. 3. Press the **Menu/Select** key. The print job(s) is (are) cancelled.
4	* Menu Select ↵	■ Enters the menu system ■ Moves down in the menu structure ■ Applies the selected setting ■ MENU appears in the message window
5	△	■ Moves the cursor up ■ Returns to the status screen from the help screen ■ Within a menu choice that is changeable character by character, scrolls upward through the available characters ■ ▲, ▲ appears in the message window
6	▷	■ Moves the cursor to the right ■ Displays the next help screen ■ ▶ appears in the message window
7	▽	■ Moves the cursor down ■ Displays the help screen when an error occurs ■ Within a menu choice that is changeable character by character, scrolls downward through the available characters ■ ▼, ▼ appears in the message window

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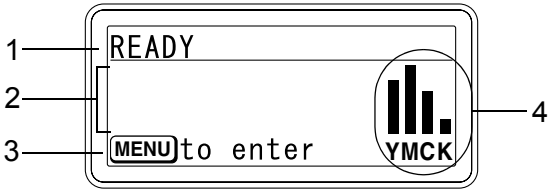
No.	Key	Function
8		■ Moves the cursor to the left ■ Displays the previous help screen ■ appears in the message window

Message Window

The current status of the printer, the amount of toner remaining, and any error messages can be viewed from the message window.



No.	Details
1	The current status of the printer is displayed. ■ If the operator or service representative must be called, the symbol and the error status are displayed. ■ If a warning occurs, the symbol appears. ■ When a digital camera is connected to the KONICA MINOLTA Digital Camera Direct Print Port with a USB cable, the symbol appears on the right side of the message window. ■ When a USB memory device is plugged into the KONICA MINOLTA Digital Camera Direct Print Port, the symbol appears on the right side of the message window. ■ While a print job is being received, the symbol appears on the right side of the message window. While a camera direct or memory direct print job is being received, the symbol appears.
2	■ Error messages are displayed. ■ While a print job is being received, the user name and the print progress are displayed. ■ While updating the firmware, the type of firmware being updated and the update progress are displayed.

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No.	Details
3	Key information is displayed.
4	The approximate amount of toner remaining is displayed.

Help Screens

The help screens appear when the ▽ key is pressed after an error occurred, such as a media misfeed, so that the error can be corrected.

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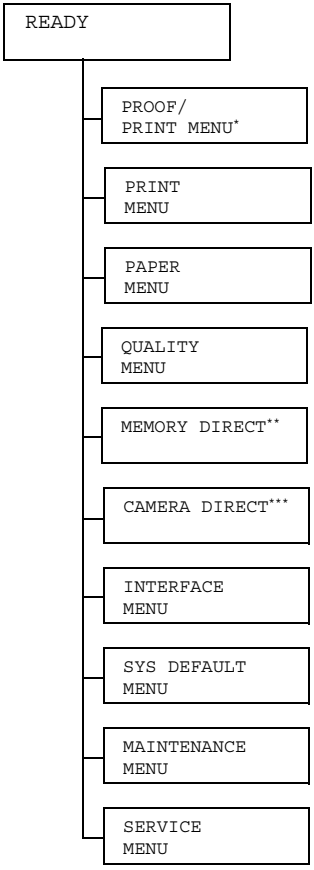
Configuration Menu Overview

The configuration menu accessible from the control panel is structured as shown below.

Main Menu



** This menu item appears only if an optional hard disk kit is installed.*
*** This menu item appears when `INTERFACE MENU/MEMORY DIRECT` is set to `ENABLE`, and an optional hard disk kit or a CompactFlash card is installed.*
**** This menu item appears when `INTERFACE MENU/CAMERA DIRECT` is set to `ENABLE`.*

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MEMORY DIRECT and *CAMERA DIRECT* do not appear if public user access has not been permitted through authentication settings. For details on the authentication settings, refer to the Reference Guide on the Utilities and Documentation CD-ROM.

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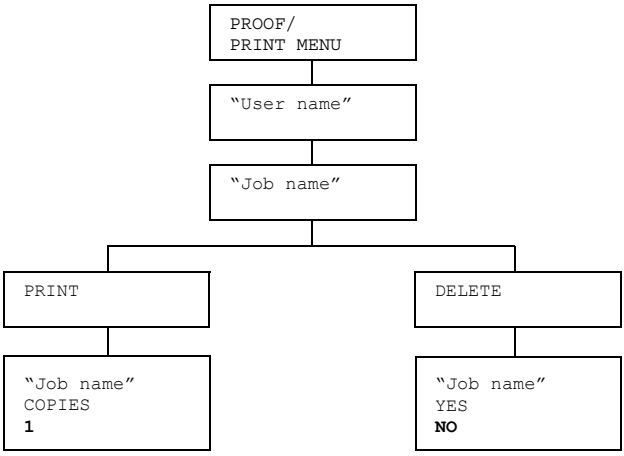
PROOF/PRINT MENU

This menu item appears only if an optional hard disk kit is installed.

With this menu item, print jobs that were set to be saved on the hard disk by using Job Retention on the Basic tab of the printer driver can be printed or deleted.



Printing/Deleting a Stored Job

1 Follow the procedure described below to select a job.

Press Key	Until Display Reads
* Menu Select ↵	PROOF/PRINT MENU
* Menu Select ↵	"User name" If no print jobs have been stored on the hard disk, NO STORED JOB appears.
△, ▽ Press until the desired user name appears.	Desired user name

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Press Key	Until Display Reads
* Menu Select ↵	"Job name"
△, ▽ Press until the desired job name appears.	Desired job name
* Menu Select ↵	PRINT DELETE If the selected print job was set as a secured job from the printer driver, a screen for entering the password appears. For details on typing the password, refer to "Entering the Password" on page 36.

2 Select PRINT or DELETE, and then press the **Menu/Select** key.

If PRINT was selected, continue with step 3.
If DELETE was selected, continue with step 5.

3 Press the △ and ▽ keys to specify the number of copies to be printed. (Settings: 1 to 999; Default: 1)

4 Press the **Menu/Select** key.

Printing begins.

5 Select YES or NO.

6 Press the **Menu/Select** key.

If YES was selected, the print job is deleted.
If NO was selected, the PRINT/DELETE selection screen appears again.

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Entering the Password

If the print job selected in the PROOF/PRINT MENU is a secured job, a screen for entering the password appears. Follow the procedure described below to type in the four digits password specified from the printer driver.

1 Press the △ and ▽ keys to increase or decrease the first digit of the password.

2 Press the ▷ key to move the cursor to the next digit.

3 Press the △ and ▽ keys to increase or decrease the second digit of the password.

4 Continue these steps until all four digits of the password are specified.

5 Press the **Menu/Select** key.

The PRINT/DELETE selection screen appears.

If an incorrect password is entered, INVALID ENTRY appears and the screen for entering the password appears again.

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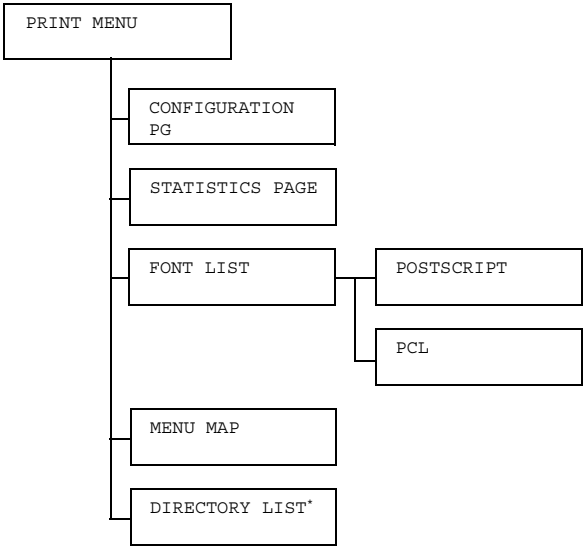
PRINT MENU

With this menu, printer information, such as the configuration page and the statistics page can be printed.



** This menu item appears only if an optional hard disk kit or a CompactFlash card is installed.*

All factory default values are shown in bold.

CONFIGURATION PG	Settings	**PRINT**/CANCEL	
	Prints the configuration page.		
STATISTICS PAGE	Settings	**PRINT**/CANCEL	
	Prints the statistics page such as the number of pages printed.		
FONT LIST	POST SCRIPT	Settings	**PRINT**/CANCEL
		Prints the PostScript font list.	
	PCL	Settings	**PRINT**/CANCEL
		Prints the PCL font list.	

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MENU MAP	Settings	**PRINT**/CANCEL
	Prints the menu map.	
DIRECTORY LIST	Settings	**PRINT**/CANCEL
	Prints the directory list of the hard disk kit or a CompactFlash card.	

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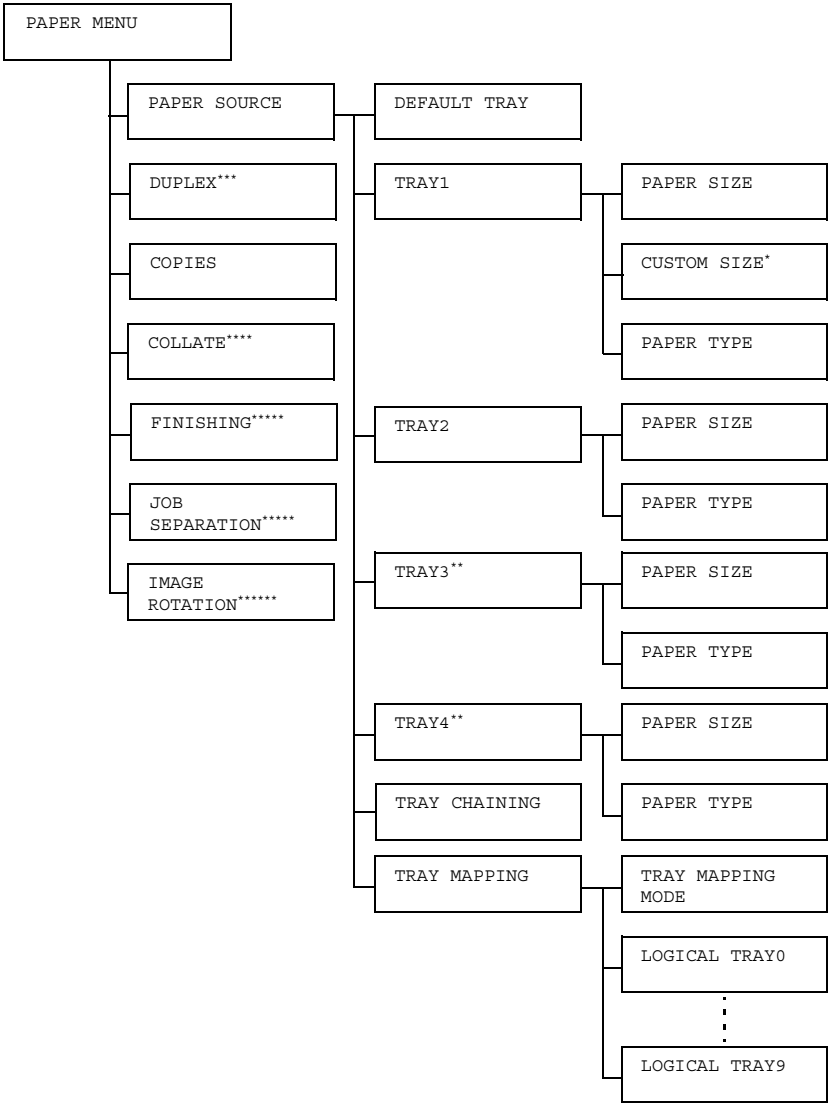
PAPER MENU

With this menu, the paper used for printing can be managed.



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** This menu item appears only when you select* `CUSTOM` *from the* `TRAY 1/PAPER SIZE` *menu.*
*** These menu items appear only if one or both of the optional lower feeder units are installed.*
**** This menu item appears only if the optional duplex unit (Duplex Option) is installed.*
***** This menu item appears only if an optional hard disk kit or a CompactFlash card of 1 GB or more is installed.*
****** This menu item appears only if the optional staple finisher is installed.*
******* This menu item appears only if the optional staple finisher is not installed.*

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All factory default values are shown in bold.

PAPER SOURCE	DEFAULT TRAY	Settings		TRAY1/**TRAY2**/ TRAY3/TRAY4
		The Lower Feeder Unit that is normally used can be specified. *TRAY 3 and TRAY 4 appear only if the optional lower feeder units are installed.*		
	TRAY1	PAPER SIZE	Settings	ANY/**LETTER**/LEGAL/ EXECUTIVE/**A4**/A5/A6/ B5(JIS)/B6(JIS)/GOVT LETTER/STATEMENT/ FOLIO/SP FOLIO/UK QUARTO/FOOLSCAP/GOVT LEGAL/16K/PHOTO 4×6/ KAI 16/KAI 32/ENV C5/ ENV C6/ENV DL/ENV MONARCH/ENV CHOU#3/ ENV CHOU#4/B5(ISO)/ ENV #10/ENV YOU#4/ JPOST/JPOST-D/CUSTOM
			Select the setting for the size of paper loaded into Tray 1. *The default setting for North America is LETTER. The default setting for all other regions are A4.* *Depending on the setting selected for SYS DEFAULT MENU/ PAPER/UNIT OF MEASURE, PHOTO 4×6 may change to PHOTO 10×15.*	

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		CUSTOM SIZE	Specify the paper size when custom-sized paper is loaded into Tray 1. The setting units can be switched between millimeters and inches with the SYS DEFAULT MENU/PAPER/UNIT OF MEASURE setting. Setting range for WIDTH ■ For MILLIMETERS: 92 to 216 mm (default) – North America: 216 mm – All other regions: 210 mm ■ For INCHES: 3.63 to 8.50 inches (default) – North America: 8.50 inches – All other regions: 8.26 inches Setting range for LENGTH ■ For MILLIMETERS: 148 to 356 mm (default) – North America: 279 mm – All other regions: 297 mm ■ For INCHES: 5.83 to 14.00 inches (default) – North America: 11.00 inches – All other regions: 11.69 inches *This menu item appears only if PAPER SIZE is set to CUSTOM.*

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		PAPER TYPE	Settings	ANY/**PLAIN PAPER**/ RECYCLED/THICK 1/ THICK 2/LABEL/ TRANSPARENCY/ ENVELOPE/POSTCARD/ LETTERHEAD/GLOSSY 1/ GLOSSY 2
			Select the setting for the type of paper loaded into Tray 1.	
	TRAY2	PAPER SIZE	Settings	**LETTER**/**A4**
			Select the setting for the size of paper loaded into Tray 2. *The default setting for North America is LETTER. The default setting for all other regions are A4.*	
		PAPER TYPE	Settings	ANY/**PLAIN PAPER**/ RECYCLED
			Select the setting for the type of paper loaded into Tray 2.	
	TRAY3 TRAY4	PAPER SIZE	The size of paper loaded in Tray 3 and Tray 4 is indicated. For media sizes that can be automatically detected, refer to “Media Specifications” on page 104. This menu item only shows the current setting. This setting cannot be changed.	
		PAPER TYPE	Settings	ANY/**PLAIN PAPER**/ RECYCLED
			Select the setting for the type of paper loaded into Tray 3/Tray 4.	
	TRAY CHAINING	Settings	**ON**/OFF	
		If ON is selected and the specified Lower Feeder Unit runs out of paper during printing, a Lower Feeder Unit loaded with paper of the same size is automatically selected so printing can continue. If OFF is selected and the specified Lower Feeder Unit runs out of paper, printing stops.		

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<table>
<tr><td rowspan="5"></td><td rowspan="5">TRAY MAPPING</td><td>TRAY MAPPING MODE</td><td>Settings</td><td>ON/OFF</td></tr>
<tr><td colspan="3">Select whether or not the Tray Mapping function is used.</td></tr>
<tr><td rowspan="3">LOGICAL TRAY 0-9</td><td>Settings</td><td>PHYSICAL TRAY1/
PHYSICAL TRAY2/
PHYSICAL TRAY3/
PHYSICAL TRAY4</td></tr>
<tr><td colspan="2">Select the tray that is used for printing when a print job is received from another manufacturer’s printer driver.

The default setting for LOGICAL TRAY 1 is PHYSICAL TRAY1. The default setting for all other trays is PHYSICAL TRAY2.

PHYSICAL TRAY3 and PHYSICAL TRAY4 appear only if an optional lower feeder unit is installed.</td></tr>
<tr><td colspan="2"></td></tr>
<tr><td rowspan="2">DUPLEX</td><td>Settings</td><td colspan="2">OFF/LONG EDGE/SHORT EDGE</td></tr>
<tr><td colspan="3">If LONG EDGE is selected, the pages will be printed on both sides of the paper for long-edge binding.

If SHORT EDGE is selected, the pages will be printed on both sides of the paper for short-edge binding.

The setting specified in the printer driver will override this menu setting.</td></tr>
<tr><td rowspan="2">COPIES</td><td>Settings</td><td colspan="2">1-9999</td></tr>
<tr><td colspan="3">Specify the number of copies to be printed.

The setting specified in the printer driver will override this menu setting.</td></tr>
<tr><td rowspan="2">COLLATE</td><td>Settings</td><td colspan="2">ON/OFF</td></tr>
<tr><td colspan="3">If ON is selected, all pages of the document are printed before the next copy is printed.

If OFF is selected, all copies of the document are not printed separately.

The setting specified in the printer driver will override this menu setting.</td></tr>
</table>

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FIN-ISHING	Settings	SUB TRAY/**MAIN TRAY**/OFFSET/STAPLING
	When SUB TRAY is selected, the paper is fed to the sub output tray. When MAIN TRAY is selected, the paper is fed to the main output tray. When OFFSET is selected, the paper is fed to the main output tray with each copy slightly shifted. When STAPLING is selected, each copy is stapled and fed to the main output tray. The setting specified in the printer driver will override this menu setting.	
JOB SEPA-RATION	Settings	ON/**OFF**
	The paper is fed to the main output tray with each print job slightly shifted. *If FINISHING is set to SUB TRAY, the print jobs are fed out stacked on top of each other without begin shifted.* *If FINISHING is set to STAPLING, the print jobs are stapled before being fed out.*	
IMAGE ROTA-TION	Settings	ON/**OFF**
	If ON is selected, the image is rotated 180 degrees before each copy is fed out. If OFF is selected, the image is not rotated. *If PAPER TYPE is set to ENVELOPE, the image cannot be rotated.*	

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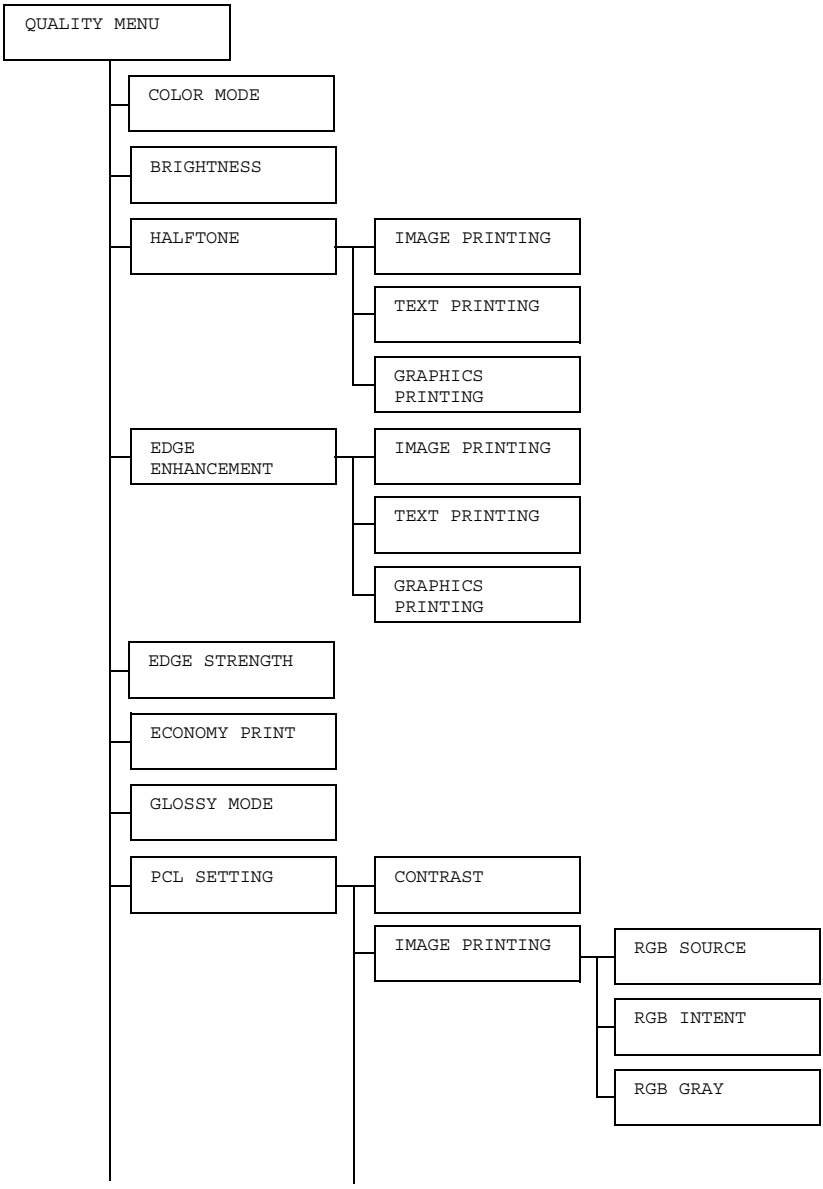
QUALITY MENU

With this menu, settings for the print quality can be specified.



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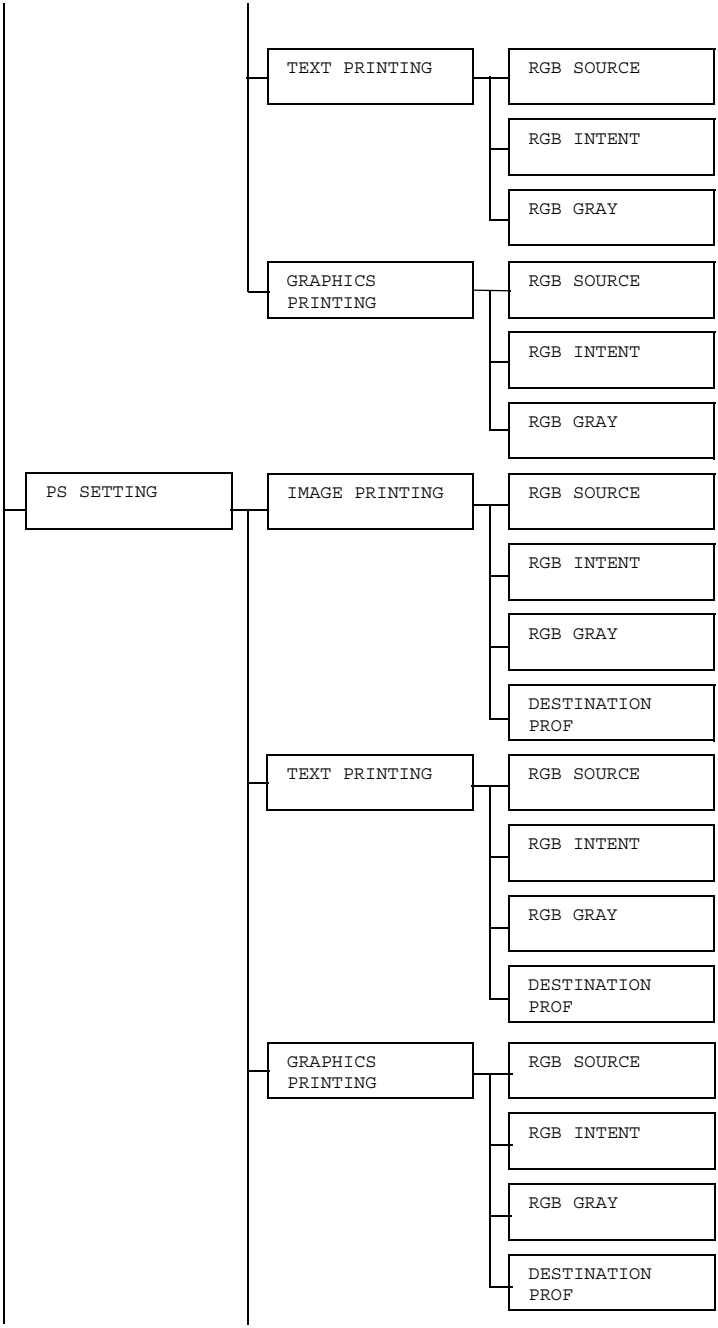

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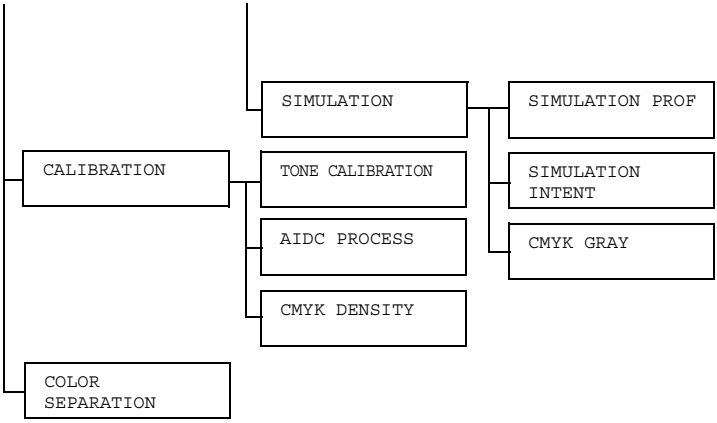

All factory default values are shown in bold.

COLOR MODE	Settings	**COLOR**/GRAYSCALE	
	If COLOR is selected, the pages are printed in full color. If GRAYSCALE is selected, the pages are printed in black and white.		
BRIGHT-NESS	Settings	-15%/-10%/-5%/**0%**/+5%/+10%/+15%	
	The brightness of the printed image can be adjusted.		
HALFTONE	IMAGE PRINTING	Settings	LINE ART/**DETAIL**/SMOOTH
		Select how halftones in images are reproduced. If LINE ART is selected, halftones are reproduced with high precision. If DETAIL is selected, halftones are reproduced with detail. If SMOOTH is selected, halftones are reproduced with smoothness.	

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	TEXT PRINTING	Settings	**LINE ART**/DETAIL/ SMOOTH
		Select how halftones in text are reproduced. If LINE ART is selected, halftones are reproduced with high precision. If DETAIL is selected, halftones are reproduced with detail. If SMOOTH is selected, halftones are reproduced with smoothness.	
	GRAPHICS PRINTING	Settings	LINE ART/**DETAIL**/ SMOOTH
		Select how halftones in graphics are reproduced. If LINE ART is selected, halftones are reproduced with high precision. If DETAIL is selected, halftones are reproduced with detail. If SMOOTH is selected, halftones are reproduced with smoothness.	
EDGE ENHANCE-MENT	IMAGE PRINTING	Settings	ON/**OFF**
		Select whether image edges are emphasized. If ON is selected, the edges are emphasized. If OFF is selected, the edges are not emphasized. *If ECONOMY PRINT is set to ON, the edges cannot be emphasized.*	

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	TEXT PRINTING	Settings	**ON**/OFF
		Select whether text edges are emphasized. If ON is selected, the edges are emphasized. If OFF is selected, the edges are not emphasized.	
	GRAPHICS PRINTING	Settings	**ON**/OFF
		Select whether graphic edges are emphasized. If ON is selected, the edges are emphasized. If OFF is selected, the edges are not emphasized. *If ECONOMY PRINT is set to ON, the edges cannot be emphasized.*	
EDGE STRENGTH	Settings	OFF/LOW/**MIDDLE**/HIGH	
	Select the desired amount that edges are emphasized. If OFF is selected, the edges are not emphasized. If LOW is selected, the edges are slightly emphasized. If MIDDLE is selected, the edges are emphasized by an average amount. If HIGH is selected, the edges are highly emphasized. *If OFF is selected, the edges are not emphasized, even if an EDGE ENHANCEMENT menu item is set to ON.*		

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ECONOMY PRINT	Settings	ON/**OFF**
	Select whether to print graphics with a reduced density by reducing the amount of toner that is used. If ON is selected, the amount of toner used is reduced when printing. If OFF is selected, the amount of toner used is not reduced when printing. *If GLOSSY MODE is set to ON, the amount of toner used is not reduced when printing, even if ON was selected for this menu item.* *If ON is selected, the edges are not emphasized, even if IMAGE PRINTING and GRAPHICS PRINTING of the EDGE ENHANCEMENT menu item are set to ON.*	
GLOSSY MODE	Settings	ON/**OFF**
	Select whether to relax the limitations on the amount of toner used in order to widen the color reproduction range and produce glossy prints. If ON is selected, glossy prints are produced. If OFF is selected, glossy prints are not produced. *If ON is selected, the amount of toner used is not reduced when printing, even if ECONOMY PRINT is set to ON.*	

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PCL SETTING	CONTRAST	Settings	-15%/-10%/-5%/**0%**/+5%/+10%/+15%	
		The contrast of the image can be adjusted.		
	IMAGE PRINTING	RGB SOURCE	Settings	DEVICE COLOR/ **sRGB**
			Specify the color space for RGB image data. If DEVICE COLOR is selected, no color space is specified. If RGB source profiles are downloaded with the Download Manager, they are available from the list of settings.	
		RGB INTENT	Settings	VIVID/ **PHOTOGRAPHIC**
			Specify the characteristic applied when converting RGB image data to CMYK data. If VIVID is selected, a vivid output is produced. If PHOTOGRAPHIC is selected, a brighter output is produced.	

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		RGB GRAY	Settings	COMPOSITE BLACK/**BLACK AND GRAY**/ BLACK ONLY
			Specify how black and grays are reproduced in RGB image data. If COMPOSITE BLACK is selected, black is reproduced using the CMYK colors. If BLACK AND GRAY is selected, black and gray are reproduced using black only. If BLACK ONLY is selected, black is reproduced using only black.	
	TEXT PRINTING	RGB SOURCE	Settings	DEVICE COLOR/ **sRGB**
			Specify the color space for RGB text data. If DEVICE COLOR is selected, no color space is specified. If RGB source profiles are downloaded with the Download Manager, they are available from the list of settings.	

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		RGB INTENT	Settings	**VIVID**/ PHOTOGRAPHIC
			Specify the characteristic applied when converting RGB text data to CMYK data. If VIVID is selected, a vivid output is produced. If PHOTOGRAPHIC is selected, a brighter output is produced.	
		RGB GRAY	Settings	COMPOSITE BLACK/**BLACK AND GRAY**/BLACK ONLY
			Specify how black and grays are reproduced in RGB text data. If COMPOSITE BLACK is selected, black is reproduced using the CMYK colors. If BLACK AND GRAY is selected, black and gray are reproduced using black only. If BLACK ONLY is selected, black is reproduced using only black.	
	GRAPHICS PRINTING	RGB SOURCE	Settings	DEVICE COLOR/ **sRGB**
			Specify the color space for RGB GRAPHICS data. If DEVICE COLOR is selected, no color space is specified. If RGB source profiles are downloaded with the Download Manager, they are available from the list of settings.	

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		RGB INTENT	Settings	**VIVID**/ PHOTOGRAPHIC
			Specify the characteristic applied when converting RGB GRAPHICS data to CMYK data. If VIVID is selected, a vivid output is produced. If PHOTOGRAPHIC is selected, a brighter output is produced.	
		RGB GRAY	Settings	COMPOSITE BLACK/**BLACK AND GRAY**/BLACK ONLY
			Specify how black and grays are reproduced in RGB GRAPHICS data. If COMPOSITE BLACK is selected, black is reproduced using the CMYK colors. If BLACK AND GRAY is selected, black and gray are reproduced using black only. If BLACK ONLY is selected, black is reproduced using only black.	

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PS SETTINGS	IMAGE PRINTING	RGB SOURCE	Settings	DEVICE COLOR/ **sRGB**/AppleRGB/ AdobeRGB1998/ ColorMatchRGB/ BlueAdjustRGB
			Specify the color space for RGB image data. If DEVICE COLOR is selected, no color space is specified. If RGB source profiles are downloaded with the Download Manager, they are available from the list of settings.	
		RGB INTENT	Settings	VIVID/ **PHOTOGRAPHIC**/ RELATIVE COLOR/ ABSOLUTE COLOR
			Specify the characteristic applied when converting RGB image data to CMYK data. If VIVID is selected, a vivid output is produced. If PHOTOGRAPHIC is selected, a brighter output is produced. If RELATIVE COLOR is selected, relative color is applied to the RGB source profile. If ABSOLUTE COLOR is selected, absolute color is applied to the RGB source profile.	

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		RGB GRAY	Settings	COMPOSITE BLACK/**BLACK AND GRAY**/ BLACK ONLY
			Specify how black and grays are reproduced in RGB image data. If COMPOSITE BLACK is selected, black is reproduced using the CMYK colors. If BLACK AND GRAY is selected, black and gray are reproduced using black only. If BLACK ONLY is selected, black is reproduced using only black.	
		DESTI-NATION PROF	Settings	**AUTO**
			Specify the destination profile. If AUTO is selected, a destination profile that the printer automatically adapts is selected based on a combination of the specified color matching, halftones and other profiles. If destination profiles are downloaded with the Download Manager, they are available from the list of settings.	

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	TEXT PRINTING	RGB SOURCE	Settings	DEVICE COLOR/ **sRGB**/AppleRGB/ AdobeRGB1998/ ColorMatchRGB/ BlueAdjustRGB
			Specify the color space for RGB text data. If DEVICE COLOR is selected, no color space is specified. If RGB source profiles are downloaded with the Download Manager, they are available from the list of settings.	
		RGB INTENT	Settings	**VIVID**/ PHOTOGRAPHIC/ RELATIVE COLOR/ABSOLUTE COLOR
			Specify the characteristic applied when converting RGB text data to CMYK data. If VIVID is selected, a vivid output is produced. If PHOTOGRAPHIC is selected, a brighter output is produced. If RELATIVE COLOR is selected, relative color is applied to the RGB source profile. If ABSOLUTE COLOR is selected, absolute color is applied to the RGB source profile.	

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		RGB GRAY	Settings	COMPOSITE BLACK/**BLACK AND GRAY**/BLACK ONLY
			Specify how black and grays are reproduced in RGB text data. If COMPOSITE BLACK is selected, black is reproduced using the CMYK colors. If BLACK AND GRAY is selected, black and gray are reproduced using black only. If BLACK ONLY is selected, black is reproduced using only black.	
		DESTI-NATION PROF	Settings	**AUTO**
			Specify the destination profile. If AUTO is selected, a destination profile that the printer automatically adapts is selected based on a combination of the specified color matching, halftones and other profiles. If destination profiles are downloaded with the Download Manager, they are available from the list of settings.	

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	GRAPHICS PRINTING	RGB SOURCE	Settings	DEVICE COLOR/ **sRGB**/AppleRGB/ AdobeRGB1998/ ColorMatchRGB/ BlueAdjustRGB
			Specify the color space for RGB image data. If DEVICE COLOR is selected, no color space is specified. If RGB source profiles are downloaded with the Download Manager, they are available from the list of settings.	
		RGB INTENT	Settings	**VIVID**/ PHOTOGRAPHIC/ RELATIVE COLOR/ ABSOLUTE COLOR
			Specify the characteristic applied when converting RGB image data to CMYK data. If VIVID is selected, a vivid output is produced. If PHOTOGRAPHIC is selected, a brighter output is produced. If RELATIVE COLOR is selected, relative color is applied to the RGB source profile. If ABSOLUTE COLOR is selected, absolute color is applied to the RGB source profile.	

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		RGB GRAY	Settings	COMPOSITE BLACK/**BLACK AND GRAY**/ BLACK ONLY
			Specify how black and grays are reproduced in RGB image data. If COMPOSITE BLACK is selected, black is reproduced using the CMYK colors. If BLACK AND GRAY is selected, black and gray are reproduced using black only. If BLACK ONLY is selected, black is reproduced using only black.	
		DESTI-NATION PROF	Settings	**AUTO**
			Specify the destination profile. If AUTO is selected, a destination profile that the printer automatically adapts is selected based on a combination of the specified color matching, halftones and other profiles. If destination profiles are downloaded with the Download Manager, they are available from the list of settings.	

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	SIMULATION	SIMU-LATION PROF	Settings	**NONE**/SWOP/Euroscale/CommercialPress/TOYO/DIC
			Specify the simulation profile. If NONE is selected, no simulation profile is specified. If simulation profiles are downloaded with the Download Manager, they are available from the list of settings.	
		SIMU-LATION INTENT	Settings	**RELATIVE COLOR**/ABSOLUTE COLOR
			Specify the characteristic of the simulation profile. If RELATIVE COLOR is selected, relative color is applied to the simulation profile. If ABSOLUTE COLOR is selected, absolute color is applied to the simulation profile.	
		CMYK GRAY	Settings	**COMPOSITE BLACK**/BLACK AND GRAY/BLACK ONLY
			Specify how black and grays are reproduced using the four CMYK colors. If COMPOSITE BLACK is selected, black is reproduced using the CMYK colors. If BLACK AND GRAY is selected, black and gray are reproduced using black only. If BLACK ONLY is selected, black is reproduced using only black.	

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CALIBRA-TION	TONE CALIBRATION	Settings	**ON**/OFF		
		If ON is selected, image adjustments are applied. If OFF is selected, image adjustments are not applied.			
	AIDC PROCESS	Settings	EXECUTE/**CANCEL**		
		If EXECUTE is selected, image adjustments are performed immediately. If CANCEL is selected, image adjustments are not performed.			
	CMYK DENSITY	CYAN/ MAGENTA/ YELLOW/ BLACK	HIGH-LIGHT	Settings	-3/-2/ -1/**0**/ +1/+2/ +3
				The density of the highlight color in images can be adjusted.	
			MIDDLE	Settings	-3/-2/ -1/**0**/ +1/+2/ +3
				The density of the middle color in images can be adjusted.	
			SHADOW	Settings	-3/-2/ -1/**0**/ +1/+2/ +3
				The density of the shadow color in images can be adjusted.	

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COLOR SEPARA-TION	Settings	ON/**OFF**
	If ON is selected, color separation are performed. The contents of a color page is separated into the color pages for yellow, magenta, cyan and black, and each is printed with black gradations as individual pages. The printing order is yellow, magenta, cyan, then black. If OFF is selected, color separation is not performed. A normal color separation is performed.	

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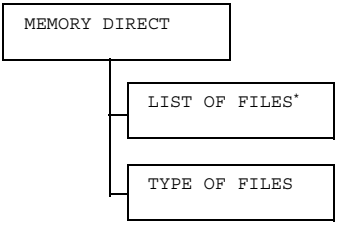
MEMORY DIRECT

This menu item appears when an optional hard disk kit or a CompactFlash card is installed, and INTERFACE MENU/MEMORY DIRECT is set to ENABLE.

In addition, this menu item does not appear if public user access has not been permitted through authentication settings. For details on the authentication settings, refer to the Reference Guide on the Utilities and Documentation CD-ROM.

With this menu, settings for “memory direct” function can be specified.

For details on memory direct, refer to “Memory Direct” on page 102.



** This menu item appears when a USB memory device is plugged into the KONICA MINOLTA Digital Camera Direct Print Port.*

All factory default values are shown in bold.

LIST OF FILES	Select the file that you wish to output, and then press the **Menu/Select** key. If the file to be printed is in a folder, select the folder, and then press the **Menu/Select** key. *Empty folders are not displayed.*	
	Settings	PRINT
	Select this setting to output a file.	
	Settings	CANCEL
	Select this setting to stop outputting and to return to the file list.	

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	LETTER/ A4	Settings	**LETTER**/LEGAL/EXECUTIVE/**A4**/ A5/A6/B5(JIS)/B6(JIS)/GOVT LETTER/STATEMENT/FOLIO/SP FOLIO/UK QUARTO/FOOLSCAP/ GOVT LEGAL/16K/PHOTO 4×6/ KAI 16/KAI 32/ENV C5/ENV C6/ENV DL/ENV MONARCH/ENV CHOU#3/ENV CHOU#4/B5(ISO)/ ENV #10/ENV YOU#4/JPOST/ JPOST-D/CUSTOM
		Change the size of the paper. *The default setting for North America is LETTER. The default setting for all other regions is A4.* *Depending on the setting selected for SYS DEFAULT MENU/PAPER/UNIT OF MEASURE, PHOTO 4×6 may change to PHOTO 10×15.* *This menu item does not appear if the selected file is a PDF and XPS file.*	
	DUPLEX: OFF	Settings	**OFF**/LONG EDGE/SHORT EDGE
		Select whether to perform duplex printing. If OFF is selected, duplex printing is not performed. If LONG EDGE is selected, the page will be printed on both sides of the paper for long edge binding. If SHORT EDGE is selected, the page will be printed on both sides of the paper for short edge binding. *This menu item appears only if an optional duplex unit (Duplex Option) is installed.*	
	COPIES:1	Settings	**1**-9999
		Specify the number of copies to be printed (between 1 and 9999).	

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	COLLATE	Settings	ON/**OFF**
		Select whether to collate the copies. If ON is selected, collated printing is performed. If OFF is selected, collated printing is not performed. *This menu item appears only if an optional hard disk kit or a CompactFlash card of 1GB or more is installed.*	
	MAIN TRAY	Settings	SUB TRAY/**MAIN TRAY**/OFFSET/STAPLING
		Select the output tray and finishing settings. When SUB TRAY is selected, the paper is fed to the sub output tray. When MAIN TRAY is selected, the paper is fed to the main output tray. When OFFSET is selected, the paper is fed to the main output tray with each copy slightly shifted. When STAPLING is selected, each copy is stapled and fed to the main output tray. *This menu item appears only if the optional staple finisher is installed.*	
TYPE OF FILES	Settings	PDF,XPS,JPEG,TIFF/**PDF,XPS**	
	Select the type of files to be displayed. *When PDF, XPS is selected, the folder is not displayed in LIST OF FILES.*		

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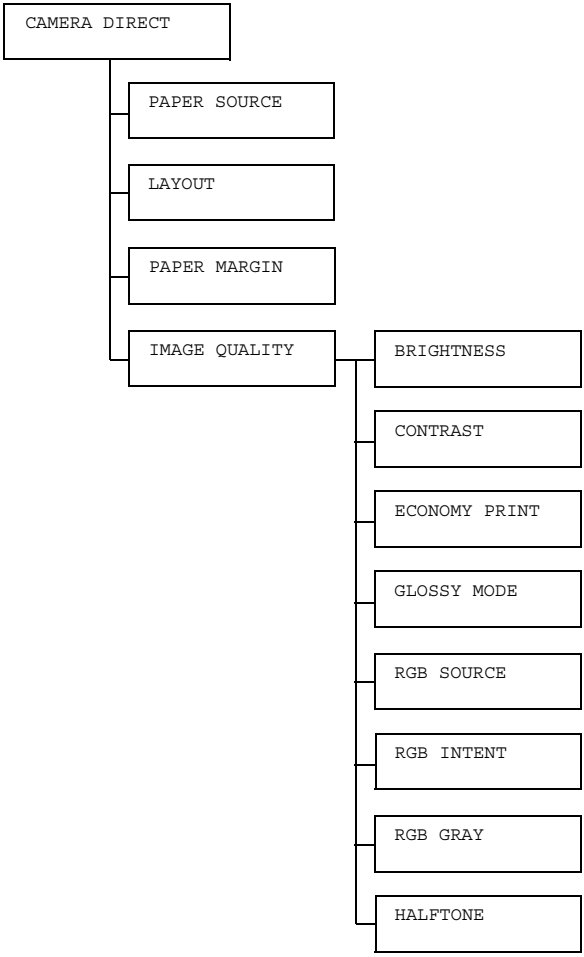
CAMERA DIRECT

This menu item appears when INTERFACE MENU/CAMERA DIRECT is set to ENABLE.

In addition, this menu item does not appear if public user access has not been permitted through authentication settings. For details on the authentication settings, refer to the Reference Guide on the Utilities and Documentation CD-ROM.

With this menu, settings for “camera direct” function can be specified.

These settings are overridden by any settings configured within the digital camera.
For details on camera direct, refer to “Camera Direct” on page 100.



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All factory default values are shown in bold.

PAPER SOURCE	Settings	TRAY1/**TRAY2**/TRAY3/TRAY4	
	Select the Lower Feeder Unit that is used for camera direct printing. *TRAY3 and TRAY4 appear only if the optional lower feeder units are installed.*		
LAYOUT	Settings	**1-UP**/2-UP/3-UP/4-UP/6-UP/8-UP	
	Specify the number of images printed on a single sheet of media. When set to 1-UP, only one image will be printed on a single sheet of media.		
PAPER MARGIN	Settings	**STANDARD**/MINIMUM	
	Select the size of the media margins (area that is not printed in). If STANDARD is selected, the standard media margin size is specified. If MINIMUM is selected, the media margins are reduced.		
IMAGE QUALITY	BRIGHTNESS	Settings	-15%/-10%/-5%/**0%**/+5%/+10%/+15%
		The brightness of the printed image can be adjusted.	
	CONTRAST	Settings	-15%/-10%/-5%/**0%**/+5%/+10%/+15%
		The contrast of the image can be adjusted.	
	ECONOMY PRINT	Settings	ON/**OFF**
		Select whether to print graphics with a reduced density by reducing the amount of toner that is used. If ON is selected, the amount of toner used is reduced when printing. If OFF is selected, the amount of toner used is not reduced when printing. *If GLOSSY MODE is set to ON, the amount of toner used is not reduced when printing, even if ON was selected for this menu item.*	

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	GLOSSY MODE	Settings	ON/**OFF**
		Select whether to relax the limitations on the amount of toner used in order to widen the color reproduction range and produce glossy prints. If ON is selected, glossy prints are produced. If OFF is selected, glossy prints are not produced. *If ON is selected, the amount of toner used is not reduced when printing, even if ECONOMY PRINT is set to ON.*	
	RGB SOURCE	Settings	DEVICE COLOR/**sRGB**
		Specify the color space for RGB image data. If DEVICE COLOR is selected, no color space is specified.	
	RGB INTENT	Settings	VIVID/**PHOTOGRAPHIC**
		Specify the characteristic applied when converting RGB image data to CMYK data. If VIVID is selected, a vivid output is produced. If PHOTOGRAPHIC is selected, a brighter output is produced.	
	RGB GRAY	Settings	**COMPOSITE BLACK**/BLACK AND GRAY/BLACK ONLY
		Specify how black and grays are reproduced in RGB image data. If COMPOSITE BLACK is selected, black is reproduced using the CMYK colors. If BLACK AND GRAY is selected, black and gray are reproduced using black only. If BLACK ONLY is selected, black is reproduced using only black.	

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	HALFTONE	Settings	LINE ART/**DETAIL**/SMOOTH
		Select how halftones are reproduced. If LINE ART is selected, halftones are reproduced with high precision. If DETAIL is selected, halftones are reproduced with detail. If SMOOTH is selected, halftones are reproduced with smoothness.	

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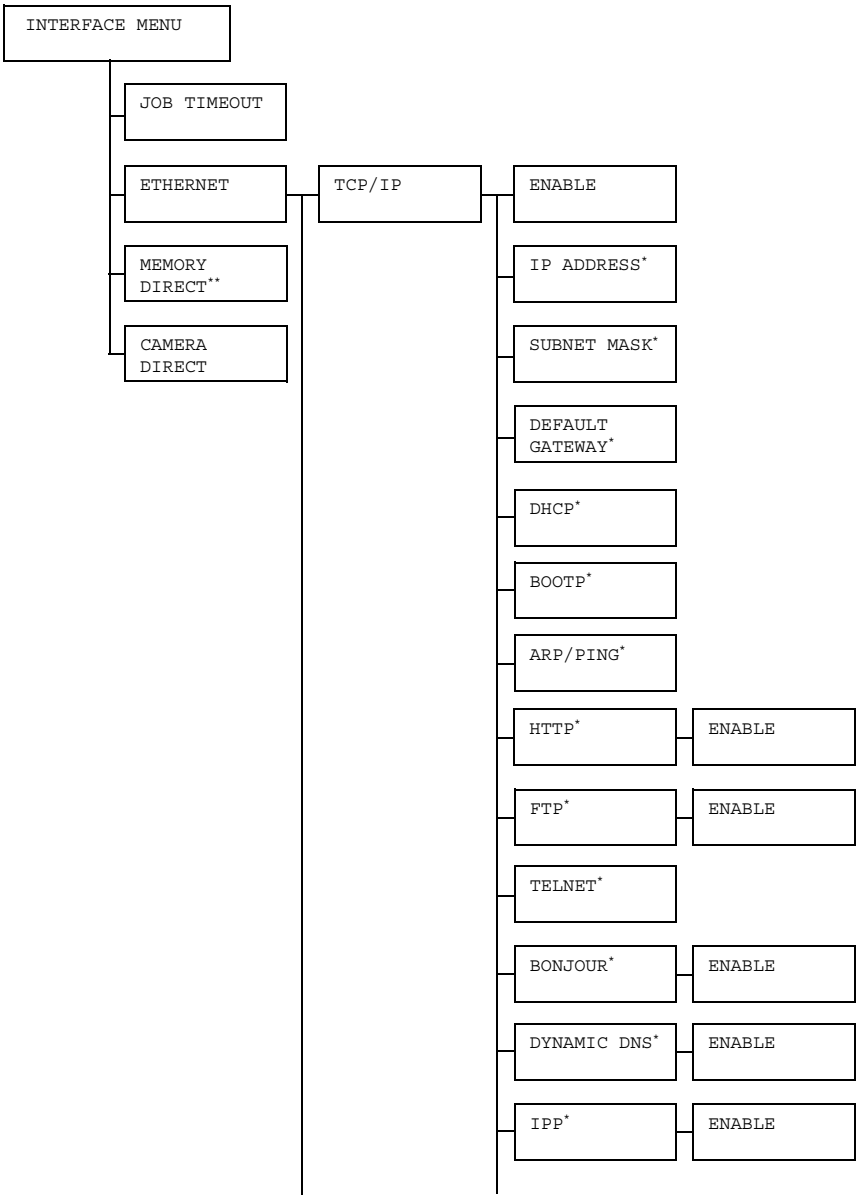
INTERFACE MENU

With this menu, interface settings can be specified.

Restart the printer after changing settings in the ETHERNET menu.



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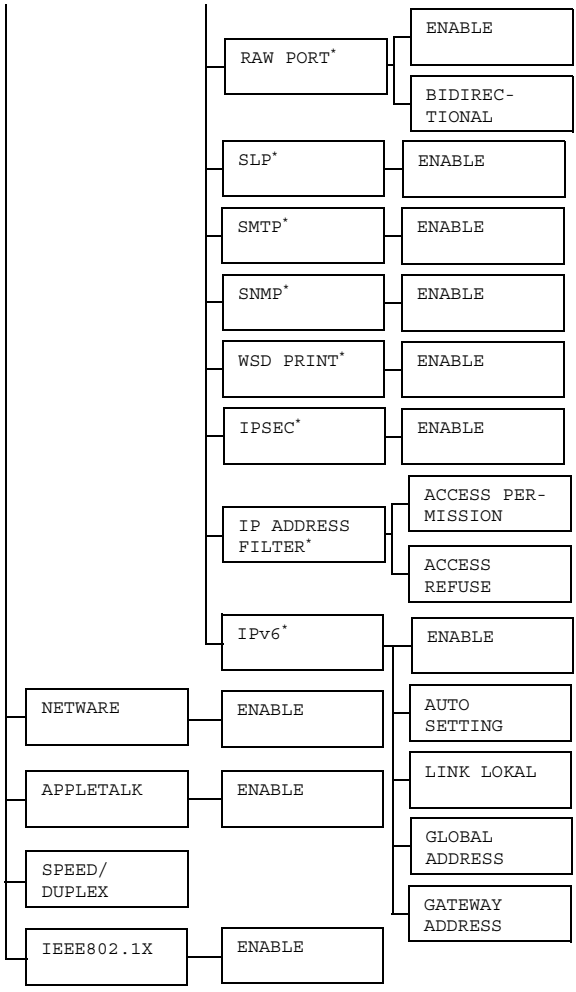

**This menu item appears when INTERFACE MENU/ETHERNET/TCP/IP/ENABLE is set to YES.*
*** This menu item appears only if an optional hard disk kit or a CompactFlash card is installed.*

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All factory default values are shown in bold.

JOB TIME-OUT	Settings	5 seconds-**15 seconds**-300 seconds		
	Specify the timeout interval for a print job being received.			
ETHER-NET	TCP/IP	ENABLE	Settings	**YES**/NO
			If YES is selected, TCP/IP is enabled. If NO is selected, TCP/IP is disabled.	
		IP ADDRESS	Setting	**000.000.000.000**
			Set the IP address for this printer on the network. Use the △, ▽, ◁, and ▷ keys to specify the value. If the IP address is manually specified, DHCP, BOOTP and ARP/PING are automatically set to OFF.	
		SUBNET MASK	Setting	**000.000.000.000**
			Specify the subnet mask for the network. Use the △, ▽, ◁, and ▷ keys to specify the value.	
		DEFAULT GATEWAY	Setting	**000.000.000.000**
			Specify the IP address of the router if one is on the network. Use the △, ▽, ◁, and ▷ keys to specify the value.	
		DHCP	Settings	**ON**/OFF
			Select whether or not the IP address is automatically acquired. If ON is selected, the IP address is automatically acquired. If OFF is selected, the IP address is not automatically acquired.	

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		BOOTP	Settings	ON/**OFF**	
			Select whether or not the IP address is automatically acquired. If ON is selected, the IP address is automatically acquired. If OFF is selected, the IP address is not automatically acquired.		
		ARP/ PING	Settings	ON/**OFF**	
			Select whether or not the IP address is automatically acquired. If ON is selected, the IP address is automatically acquired. If OFF is selected, the IP address is not automatically acquired.		
		HTTP	ENABLE	Settings	**YES**/NO
				If YES is selected, HTTP is enabled. If NO is selected, HTTP is disabled.	
		FTP	ENABLE	Settings	**YES**/NO
				If YES is selected, FTP is enabled. If NO is selected, FTP is disabled.	
		TELNET	Settings	**ENABLE**/DISABLE	
			Select whether to enable or disable Telnet transmissions. When ENABLE is selected, Telnet transmissions are enabled. When DISABLE is selected, Telnet transmissions are disabled.		
		BONJOUR	ENABLE	Settings	**YES**/NO
				If YES is selected, Bonjour is enabled. If NO is selected, Bonjour is disabled.	

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		DYNAMIC DNS	ENABLE	Settings	YES/**NO**
				If YES is selected, Dynamic DNS is enabled. If NO is selected, Dynamic DNS is disabled.	
		IPP	ENABLE	Settings	**YES**/NO
				If YES is selected, IPP is enabled. If NO is selected, IPP is disabled.	
		RAW PORT	ENABLE	Settings	**YES**/NO
				If YES is selected, Raw Port is enabled. If NO is selected, Raw Port is disabled.	
			BIDI-REC-TIONAL	Settings	ON/**OFF**
				If ON is selected, Raw port transmissions are enabled. If OFF is selected, Raw port transmissions are disabled.	
		SLP	ENABLE	Settings	**YES**/NO
				If YES is selected, SLP is enabled. If NO is selected, SLP is disabled.	
		SMTP	ENABLE	Settings	**YES**/NO
				If YES is selected, SMTP is enabled. If NO is selected, SMTP is disabled.	
		SNMP	ENABLE	Settings	**YES**/NO
				If YES is selected, SNMP is enabled. If NO is selected, SNMP is disabled.	

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		WSD PRINT	ENABLE	Settings	**YES**/NO
				If YES is selected, WSD print is enabled. If NO is selected, WSD print is disabled.	
		IPSEC	ENABLE	Settings	YES/**NO**
				If YES is selected, IPsec is enabled. If NO is selected, IPsec is disabled.	
		IP ADDRESS FILTER	ACCESS PERMISSION	Settings	ENABLE/**DISABLED**
				Select whether to enable or disable access granting. If ENABLE is selected, access granting is enabled. If DISABLE is selected, access granting is disabled.	
			ACCESS REFUSE	Settings	ENABLE/**DISABLED**
				Select whether to enable or disable access blocking. If ENABLE is selected, access blocking is enabled. If DISABLE is selected, access blocking is disabled.	
		IPv6	ENABLE	Settings	**YES**/NO
				If YES is selected, IPv6 is enabled. If NO is selected, IPv6 is disabled.	

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			AUTO SET-TING	Settings	**YES**/NO
				If YES is selected, auto configuration of IPv6 is enabled. If NO is selected, auto configuration of IPv6 is disabled.	
			LINK LOCAL	Displays the Link-Local address.	
			GLOBAL ADDRESS	Displays the global address.	
			GATE-WAY ADDRESS	Displays the gateway address.	
	NETWARE	ENABLE	Settings	YES/**NO**	
			If YES is selected, NetWare is enabled. If NO is selected, NetWare is disabled.		
	APPLE TALK	ENABLE	Settings	**YES**/NO	
			If YES is selected, AppleTalk is enabled. If NO is selected, AppleTalk is disabled.		
	SPEED/ DUPLEX	Settings	**AUTO**/10BASE FULL/10BASE HALF/100BASE FULL/100BASE HALF/1000BASE FULL		
		Specify the transmission speed for the network and the transmission method for bi-directional transmission.			
	IEEE 802.1X	ENABLE	Settings	YES/**NO**	
			If YES is selected, IEEE 802.1X is enabled. If NO is selected, IEEE 802.1X is disabled.		
MEMORY DIRECT	Settings	**ENABLE**/DISABLE			
	Select whether to enable or disable memory direct printing. If ENABLE is selected, memory direct printing is enabled. If DISABLE is selected, memory direct printing is disabled.				

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CAMERA DIRECT	Settings	**ENABLE**/DISABLE
	Select whether to enable or disable camera direct printing. If ENABLE is selected, camera direct printing is enabled. If DISABLE is selected, camera direct printing is disabled.	

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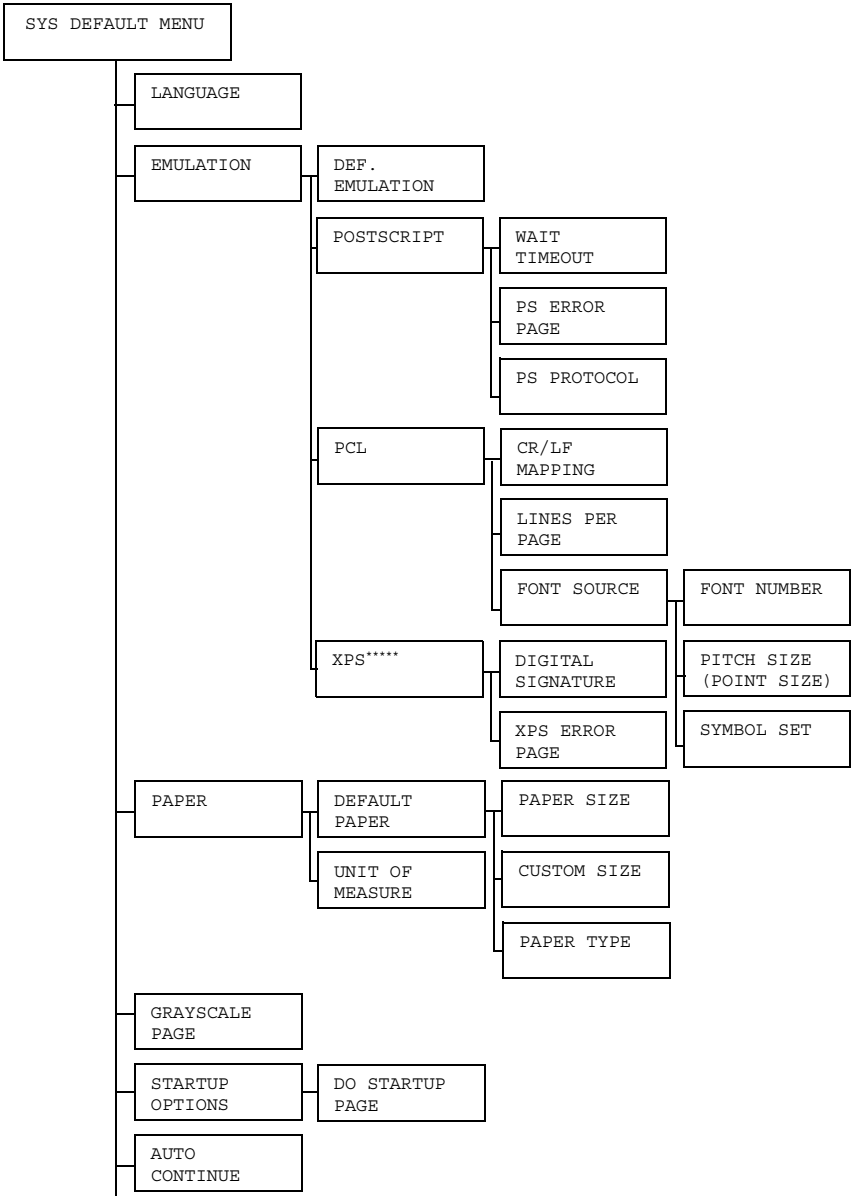
SYS DEFAULT MENU

With this menu, settings can be specified to adjust the operation of the printer, such as the display language of the message window and the time until the machine enters Energy Saver mode.



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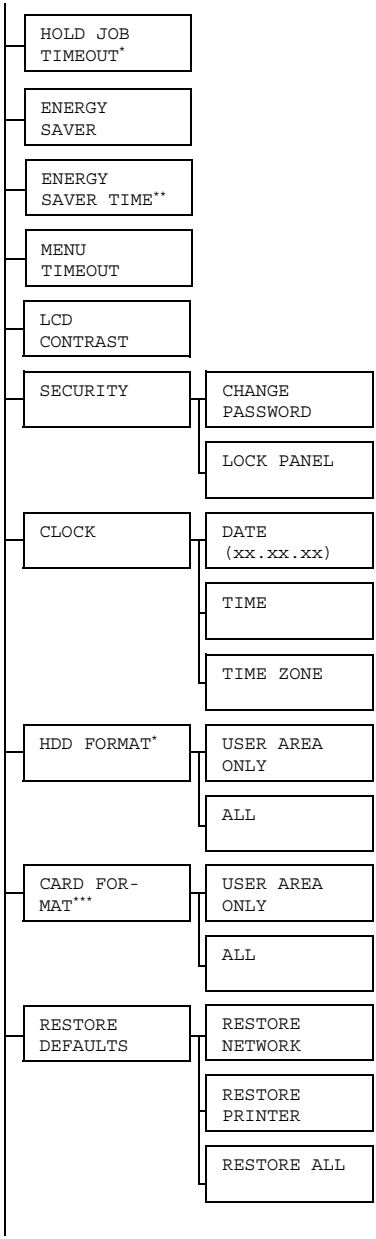

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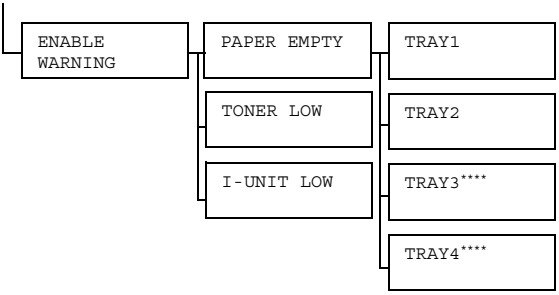

** These menu items appear only if an optional hard disk kit is installed.*
*** This menu item appears when you select* `ON` *from the* `ENERGY SAVER` *menu.*
**** This menu item appears only if an optional CompactFlash card is installed.*
***** These menu items appear only if corresponding optional lower feeder unit is installed.*
****** This menu item appears only if an optional hard disk kit or a CompactFlash card is installed.*

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All factory default values are shown in bold.

LAN-GUAGE	Settings	**ENGLISH**/FRENCH/GERMAN/SPANISH/ ITALIAN/PORTUGUESE/CZECH/JAPANESE/ KOREAN/SIMPLIFIED CHINESE/ TRADITIONAL CHINESE/DUTCH/RUSSIAN/ POLISH		
	The display language of the message window can be changed to the selected language. The language selections appear in the message window in the corresponding language. For example, GERMAN appears as DEUTSCH.			
EMULA-TION	DEF. EMULA-TION	Settings	**AUTO**/POSTSCRIPT/PCL	
		Specify the printer emulation language. If AUTO is selected, the printer automatically selects the printer emulation language from the data stream.		
	POST-SCRIPT	WAIT TIME OUT	Settings	**0**-300
			Specify the time until an error is determined to be a PostScript error. If 0 is selected, no timeout is performed.	
		PS ERROR PAGE	Settings	ON/**OFF**
			Select whether or not an error page is printed when a Postscript error occurs.	
		PS PROTO-COL	Settings	**AUTO**/NORMAL/BINARY
			Specify the protocol for data transmissions with a PostScript data stream. If AUTO is selected, the printer automatically selects an applicable protocol from the data stream.	

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	PCL	CR/LF MAP-PING	Settings	**CR=CR LF=LF**/CR=CRLF LF=LF/CR=CR LF=LFCR/CR=CRLF LF=LFCR	
			Select the definitions of the CR/LF codes in the PCL language.		
		LINES PER PAGE	Settings	5-**60**-128	
			Specify the number of lines per page in the PCL language.		
		FONT SOURCE	FONT NUMBER	Settings	**0**-102
				Specify the default font in the PCL language. The font numbers that appear correspond to the PCL font list. For details on printing the font list, refer to “PRINT MENU” on page 37.	
			PITCH SIZE (POINT SIZE)	Settings	0.44-**10.00**-99.99 (4.00-**12.00**-999.75)
				Specify the font size in the PCL language. If the selected FONT NUMBER is for a bitmap font, PITCH SIZE appears. If the selected FONT NUMBER is for an outline font, POINT SIZE appears.	
			SYMBOL SET	Specify the symbol set used with the PCL language. The default setting is PC8.	

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	XPS	DIGITAL SIGNATURE	Settings	ENABLE/**DISABLE**
			Select whether to enable or disable XPS digital signatures. If ENABLE is selected, XPS digital signatures are enabled. If DISABLE is selected, XPS digital signatures are disabled.	
		XPS ERROR PAGE	Settings	**ON**/OFF
			Select whether or not an error report is printed after an XPS error has occurred. If ON is selected, the error report is printed. If OFF is selected, the error report is not printed.	
PAPER	DEFAULT PAPER	PAPER SIZE	Settings	**LETTER**/LEGAL/EXECUTIVE/**A4**/A5/A6/B5(JIS)/B6(JIS)/GOVT LETTER/STATEMENT/FOLIO/SP FOLIO/UK QUARTO/FOOLSCAP/GOVT LEGAL/16K/PHOTO 4x6/KAI 16/KAI 32/ENV C5/ENV C6/ENV DL/ENV MONARCH/ENV CHOU#3/ENV CHOU#4/B5(ISO)/ENV #10/ENV YOU#4/JPOST/JPOST-D/CUSTOM
			Select the size of media that is normally used. *The default setting for North America is LETTER. The default setting for all other regions is A4.* *Depending on the setting selected for SYS DEFAULT MENU/PAPER/UNIT OF MEASURE, PHOTO 4×6 may change to PHOTO 10×15.*	

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		CUSTOM SIZE	Specify the media size when PAPER SIZE is set to CUSTOM. The setting units can be switched between millimeters and inches with the SYS DEFAULT MENU/PAPER/UNIT OF MEASURE setting. Setting range for WIDTH ■ For MILLIMETERS: 92 to 216 mm (default) – North America: 216 mm – All other regions: 210 mm ■ For INCHES: 3.63 to 8.50 inches (default) – North America: 8.50 inches – All other regions: 8.26 inches Setting range for LENGTH ■ For MILLIMETERS: 148 to 356 mm (default) – North America: 279 mm – All other regions: 297 mm ■ For INCHES: 5.83 to 14.00 inches (default) – North America: 11.00 inches – All other regions: 11.69 inches

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		PAPER TYPE	Settings	**PLAIN PAPER**/ RECYCLED/THICK 1/ THICK 2/LABEL/ TRANSPARENCY/ ENVELOPE/POSTCARD/ LETTERHEAD/GLOSSY 1/ GLOSSY 2
			Select the type of media that is normally used.	
	UNIT OF MEA-SURE	Settings	**INCHES**/**MILLIMETERS**	
		The units for specifying the size of custom media can be switched between inches and millimeters. *The default setting for North America is INCHES. The default setting for all other regions is MILLIMETERS.*		
GRAY SCALE PAGE	Settings	**AUTO**/GRAYSCALE PRINT/COLOR PRINT		
	Specify the operation to be performed for black-and-white pages in a job specified for color printing. If AUTO is selected, printing is automatically performed according to the first page of the job. If GRAYSCALE PRINT is selected, black-and-white printing is automatically performed depending on each page. If COLOR PRINT is selected, color printing is performed, even for a black-and-white page.			
STARTUP OPTIONS	DO START-UP PAGE	Settings	ON/**OFF**	
		Select whether or not a startup page is printed when the printer is turned on.		

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AUTO CON-TINUE	Settings	ON/**OFF**
	Select whether or not printing continues if the size or type of media in the selected tray is different from the size or type of media for the print job. If AUTO CONTINUE is set to ON, printing automatically continues after about 10 seconds under the following conditions. At this time, printing will be performed even if the media size is different. No media: PAPER EMPTY (Page 225)/TRAY EMPTY (Page 227) Different media size/type: PAPER ERROR (Page 225)/TRAY x PAPER ERR (Page 227)	
HOLD JOB TIME OUT	Settings	**DISABLE**/1 hour/4 hours/1 day/ 1 week
	Specify the length of time until print jobs saved on the hard disk are deleted. If DISABLE is selected, print jobs are not deleted at a specific time.	
ENERGY SAVER	Settings	**ON**/OFF
	If ON is selected, the machine enters Energy Saver mode according to the length of time specified for ENERGY SAVER TIME. If OFF is selected, the machine will not enter Energy Saver mode.	
ENERGY SAVER TIME	Settings	5 minutes/6 minutes/7 minutes/8 minutes/9 minutes/10 minutes/11 minutes/12 minutes/13 minutes/14 minutes/**15 minutes**/30 minutes/ 1 hour/3 hours
	Specify the length of time until the machine enters Energy Saver mode. This menu item appears only when ENERGY SAVER is set to ON.	
MENU TIME OUT	Settings	OFF/1 minute/**2 minutes**
	Specify the length of time until the status screen is displayed when no operation is performed while a menu or help screen is displayed in the message window. If OFF is selected, no timeout occurs.	

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LCD CONTRAST	Settings	-3/-2/-1/**0**/+1/+2/+3
	Adjust the contrast of the message window. The darkest level setting is -3 and the brightest level setting is +3.	
SECURITY	CHANGE PASSWORD	Specify the password for locking the control panel. If the password is set to 0000 (default), the control panel is not locked. In order to lock the control panel, be sure to specify a password other than 0000.
	LOCK PANEL	Settings: **OFF**/MINIMUM/ON
		Specify how the control panel is locked. If OFF is selected, the control panel is not locked. If MINIMUM is selected, the INTERFACE MENU and SYS DEFAULT MENU are protected with a password. If ON is selected, all menus are protected with a password. In order to lock the control panel, be sure to specify a password other than 0000.
CLOCK	DATE (xx.xx.xx)	Specify the date for the printer's internal clock. The date for Asia and China is set in the order year, month, then day (YY.MM.DD). The date for the Americas is set in the order month, day, then year (MM.DD.YY). The date for Europe is set in the order day, month, then year (DD.MM.YY).
	TIME	Specify the time for the printer's internal clock.
	TIME ZONE	Settings: -12:00-00:00-+13:00
		Specify the time zone.
HDD FORMAT	USER AREA ONLY	Initialize the user area of the hard disk. When this menu item is selected, the printer is automatically restarted.
	ALL	Initialize the hard disk. When this menu item is selected, the printer is automatically restarted.

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CARD FORMAT	USER AREA ONLY	Initialize the user area of the CompactFlash card. When this menu item is selected, the printer is automatically restarted.		
	ALL	Initialize the CompactFlash card. When this menu item is selected, the printer is automatically restarted.		
RESTORE DEFAULTS	RESTORE NETWORK	Reset the network settings to their defaults. When this menu item is selected, the printer is automatically restarted.		
	RESTORE PRINTER	Reset the printer settings to their defaults. When this menu item is selected, the printer is automatically restarted.		
	RESTORE ALL	Reset all settings to their defaults. When this menu item is selected, the printer is automatically restarted.		
ENABLE WARNING	PAPER EMPTY	TRAY1	Settings	ON/**OFF**
			Select whether or not a warning appears when Tray 1 runs out of media.	
		TRAY2	Settings	**ON**/OFF
			Select whether or not a warning appears when Tray 2 runs out of media.	
		TRAY3	Settings	**ON**/OFF
			Select whether or not a warning appears when Tray 3 runs out of media.	
		TRAY4	Settings	**ON**/OFF
			Select whether or not a warning appears when Tray 4 runs out of media.	
	TONER LOW	Settings	ON/**OFF**	
		Select whether or not a warning appears when the toner is about to run out.		
	I-UNIT LOW	Settings	ON/**OFF**	
		Select whether or not a warning appears when the print unit is about to reach the end of its service life.		

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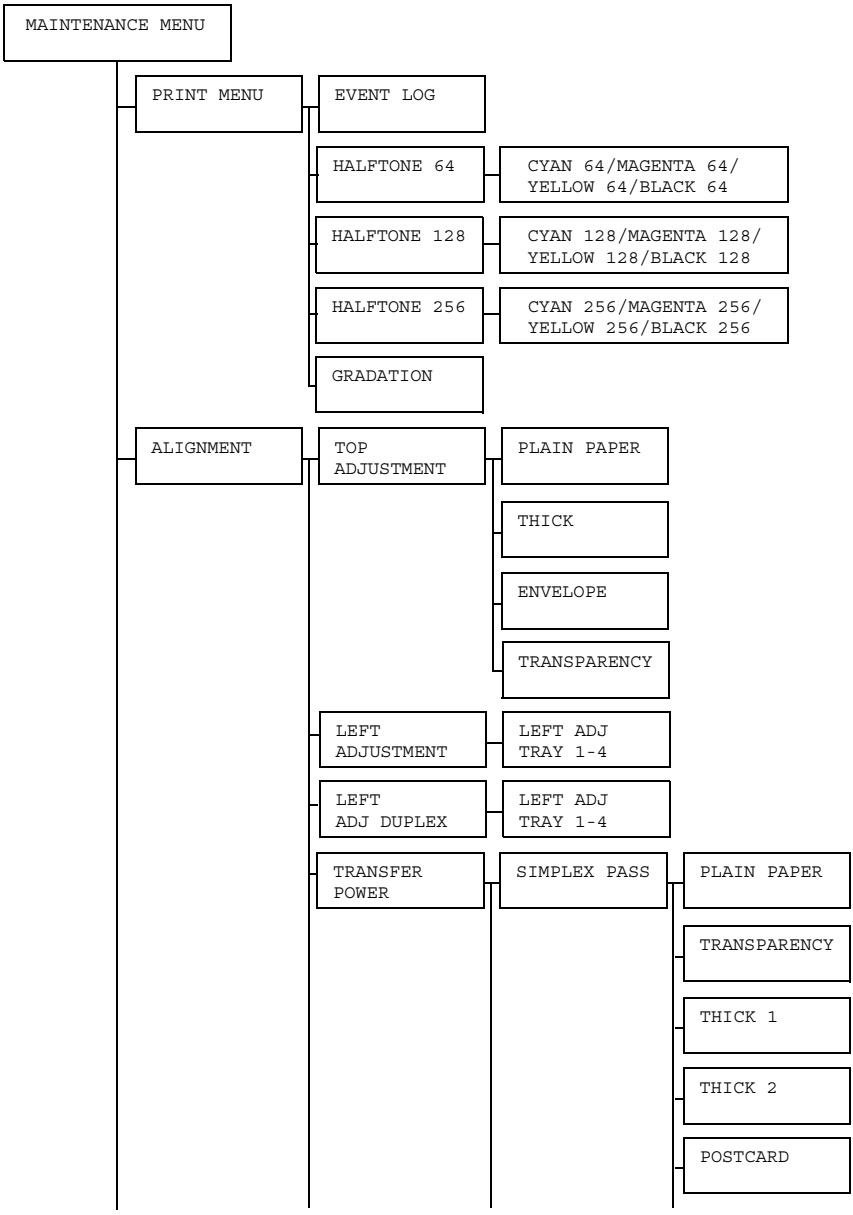
MAINTENANCE MENU

With this menu, maintenance on this printer can be performed.

In order to use this menu, the administrator password must be entered.



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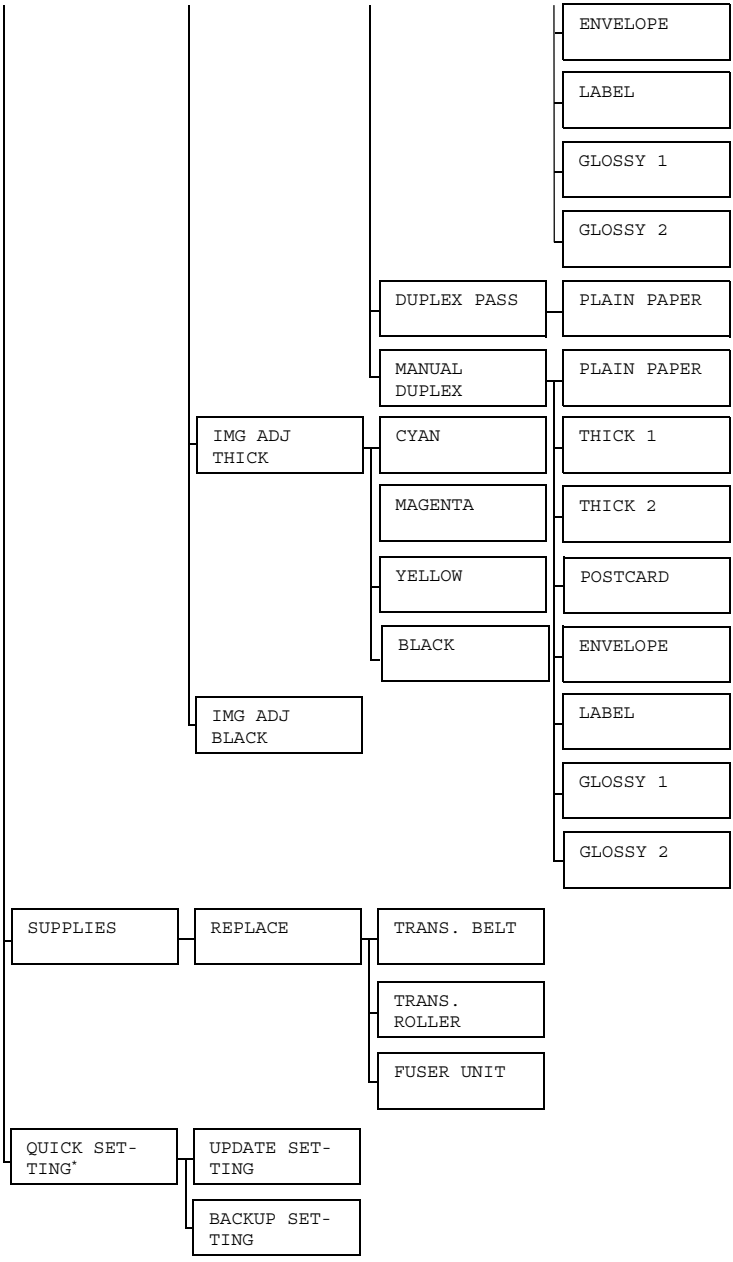

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This menu item appears when a USB memory device is plugged into the KONICA MINOLTA Digital Camera Direct Port.

All factory default values are shown in bold.

PRINT MENU	EVENT LOG	Settings	**PRINT**/CANCEL	
		Prints the event log.		
	HALF-TONE 64	CYAN/ MAGENTA/ YELLOW/ BLACK 64	Settings	**PRINT**/CANCEL
			Print cyan/magenta/yellow/black half-tones at 64 gradations.	
	HALF-TONE 128	CYAN/ MAGENTA/ YELLOW/ BLACK 128	Settings	**PRINT**/CANCEL
			Print cyan/magenta/yellow/black half-tones at 128 gradations.	
	HALF-TONE 256	CYAN/ MAGENTA/ YELLOW/ BLACK 256	Settings	**PRINT**/CANCEL
			Print cyan/magenta/yellow/black half-tones at 256 gradations.	
	GRADA-TION	Settings	**PRINT**/CANCEL	
		Prints the gradation.		
ALIGN-MENT	TOP ADJUST MENT	PLAIN PAPER	Settings	-15-15
			When printing on plain paper, specify the size of the top margin.	
		THICK	Settings	-15-15
			When printing on thick paper, specify the size of the top margin.	
		ENVE-LOPE	Settings	-15-15
			When printing on envelope, specify the size of the top margin.	
		TRANS-PARENCY	Settings	-15-15
			When printing on transparency, specify the size of the top margin.	

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	LEFT ADJUSTMENT	LEFT ADJ TRAY1	Settings	-15-15	
			When printing on media in Tray 1, specify the size of the left margin.		
		LEFT ADJ TRAY2	Settings	-15-15	
			When printing on media in Tray 2, specify the size of the left margin.		
		LEFT ADJ TRAY3	Settings	-15-15	
			When printing on media in Tray 3, specify the size of the left margin.		
		LEFT ADJ TRAY4	Settings	-15-15	
			When printing on media in Tray 4, specify the size of the left margin.		
	LEFT ADJ DUPLEX	LEFT ADJ TRAY1	Settings	-15-15	
			When duplex printing on media in Tray 1, specify the size of the left margin.		
		LEFT ADJ TRAY2	Settings	-15-15	
			When duplex printing on media in Tray 2, specify the size of the left margin.		
		LEFT ADJ TRAY3	Settings	-15-15	
			When duplex printing on media in Tray 3, specify the size of the left margin.		
		LEFT ADJ TRAY4	Settings	-15-15	
			When duplex printing on media in Tray 4, specify the size of the left margin.		
	TRANS-FER POWER	SIM-PLEX PASS	PLAIN PAPER	Settings	-8-7
				When printing on plain paper using simplex pass, correct the secondary image transfer current.	
			TRANS-PARENCY	Settings	-8-7
				When printing on transparency using simplex pass, correct the secondary image transfer current.	

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			THICK 1	Settings	-8-7
				When printing on thick 1 using simplex pass, correct the secondary image transfer current.	
			THICK 2	Settings	-8-7
				When printing on thick 2 using simplex pass, correct the secondary image transfer current.	
			POST-CARD	Settings	-8-7
				When printing on postcard using simplex pass, correct the secondary image transfer current.	
			ENVELOPE	Settings	-8-7
				When printing on envelope using simplex pass, correct the secondary image transfer current.	
			LABEL	Settings	-8-7
				When printing on LABEL using simplex pass, correct the secondary image transfer current.	
			GLOSSY 1	Settings	-8-7
				When printing on GLOSSY 1 using simplex pass, correct the secondary image transfer current.	
			GLOSSY 2	Settings	-8-7
				When printing on GLOSSY 2 using simplex pass, correct the secondary image transfer current.	
		DUPLEX PASS	PLAIN PAPER	Settings	-8-7
				When printing on plain paper using duplex pass, correct the secondary image transfer current.	

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		MANUAL DUPLEX	PLAIN PAPER	Settings	-8-7
				When printing on plain paper using manual duplex pass, correct the secondary image transfer current.	
			THICK 1	Settings	-8-7
				When printing on THICK 1 using manual duplex pass, correct the secondary image transfer current.	
			THICK 2	Settings	-8-7
				When printing on THICK 2 using manual duplex pass, correct the secondary image transfer current.	
			POST-CARD	Settings	-8-7
				When printing on POST-CARD using manual duplex pass, correct the secondary image transfer current.	
			ENVE-LOPE	Settings	-8-7
				When printing on ENVELOPE using manual duplex pass, correct the secondary image transfer current.	
			LABEL	Settings	-8-7
				When printing on LABEL using manual duplex pass, correct the secondary image transfer current.	
			GLOSSY 1	Settings	-8-7
				When printing on GLOSSY 1 using manual duplex pass, correct the secondary image transfer current.	

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			GLOSSY 2	Settings	-8-7
				When printing on GLOSSY 2 using manual duplex pass, correct the secondary image transfer current.	
	IMG ADJ THICK	CYAN	Settings	-5-**0**-5	
			When printing on thick paper, adjust the cyan in the image.		
		MAGENTA	Settings	-5-**0**-5	
			When printing on thick paper, adjust the magenta in the image.		
		YELLOW	Settings	-5-**0**-5	
			When printing on thick paper, adjust the yellow in the image.		
		BLACK	Settings	-5-**0**-5	
			When printing on thick paper, adjust the black in the image.		
	IMG ADJ BLACK	Settings	-2-**0**-2		
		When printing in grayscale, adjust the black in the image.			
SUP-PLIES	RE-PLACE	TRANS. BELT	Settings	YES/**NO**	
			Reset the service life counter for the transfer belt unit.		
		TRANS. ROLLER	Settings	YES/**NO**	
			Reset the service life counter for the transfer roller.		
		FUSER UNIT	Settings	YES/**NO**	
			Reset the service life counter for the fuser unit.		

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QUICK SET-TING	UPDATE SETTING	Setup	**EXECUTE** / CANCEL
		Select whether or not to update the printer settings from the definitions file on the USB memory device. If EXECUTE is selected, the printer settings are updated. If CANCEL is selected, the settings are not updated.	
	BACKUP SET-TING	Backup	**EXECUTE** / CANCEL
		Select whether or not to save the printer settings information on a USB memory device. If EXECUTE is selected, the printer settings are saved on a USB memory device. If CANCEL is selected, the settings are not saved.	

SERVICE MENU

With this menu, the service representative can adjust the printer and perform maintenance operations. This menu cannot be used by the user.

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5 Camera Direct

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Camera Direct

If a digital camera with PictBridge (1.0 or later) is connected to the printer through the Camera Direct Print port, images stored on the digital camera can be printed directly from the printer.

For details on using the digital camera, refer to your digital cameras manual.

The following features are not supported with Camera Direct.
- DPOF AUTOPRINT image print
- Cropping print
- Borderless
- Print quality (printer setup)
- Paper type (printer setup)
- DPOF cable disconnect recovery

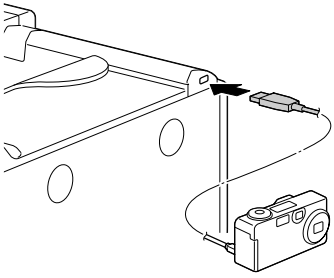
Printing Directly from a Digital Camera

1 From the printer's `Camera Direct` Menu, specify settings for `Paper Source`, `Layout`, `Paper Margin` and `Image Quality`.

The Media Type setting that is used is the default printer setting that is selected.
The Media Type setting cannot be selected from the digital camera.

If these settings can be specified from the digital camera, they do not need to be specified from the control panel. These settings are overridden by settings configured within the digital camera.
For details on control panel settings, refer to "CAMERA DIRECT" on page 68.

2 Connect the USB cable to the digital camera and to the KONICA MINOLTA Digital Camera Direct Print Port.



A USB cable is not included with the printer and must be purchased separately, if not supplied with your digital camera.

3 From the digital camera, specify the image that you wish to print and the desired number of copies.

4 Start printing from the digital camera.

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6 Memory Direct

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Memory Direct

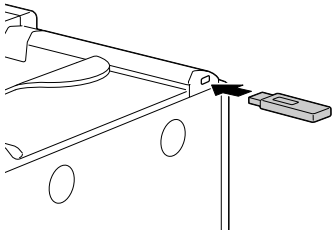
PDF, XPS, JPEG and TIFF files saved on USB memory devices can be printed by plugging the USB memory device into the printer.

Memory direct can be used only if an optional hard disk kit or a CompactFlash card is installed.
In order to perform collated printing with memory direct, an optional hard disk kit or a CompactFlash card of 1 GB or more must be installed.

For details on specifying settings with the control panel, refer to "MEMORY DIRECT" on page 65.

Printing From a Connected USB Memory Device

1 Plug the USB memory device into the KONICA MINOLTA Digital Camera Direct Print Port.
The USB icon appears in the upper-right corner of the message window, and the `Memory Direct` menu appears.



2 Select `LIST OF FILES`, and then press the **Menu/Select** key.

When JPEG and TIFF files are displayed, select `PDF`, `XPS`, `JPEG`, `TIFF` for `TYPE OF FILES`.

3 From the file list, select the file that you wish to print, and then press the **Menu/Select** key.
If the file to be printed is in a folder, select the folder, and then press the **Menu/Select** key.

A maximum of 99 folders and files can be displayed.

Up to 7 folder levels can be displayed.

4 Select `PRINT`, and then press the **Menu/Select** key.
When printing is finished, the status screen appears again.

Settings can be specified for the paper size, duplex printing, number of copies, collating, the output tray, and finishing.

Do not unplug the USB memory device from the KONICA MINOLTA Digital Camera Direct Print Port during memory direct printing.

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7 Using Media

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Media Specifications

What types and sizes of media can I load?

Media	Media Size		Tray*	Duplex (double-sided)
	Inch	Millimeter		
Letter	8.5 x 11.0	215.9 x 279.4	1/2/3/4	Yes
Legal	8.5 x 14.0	215.9 x 355.6	1/3/4	Yes
Statement	5.5 x 8.5	139.7 x 215.9	1	No
Executive	7.25 x 10.5	184.2 x 266.7	1/3/4	Yes
A4	8.2 x 11.7	210.0 x 297.0	1/2/3/4	Yes
A5	5.9 x 8.3	148.0 x 210.0	1	No
A6	4.1 x 5.8	105.0 x 148.0	1	No
B5 (JIS)	7.2 x 10.1	182.0 x 257.0	1/3/4	Yes
B6	5.0 x 7.2	128.0 x 182.0	1	No
Folio	8.25 x 13.0	210.0 x 330.0	1	Yes
SP Folio	8.5 x 12.69	215.9 x 322.3	1	Yes
Foolscap	8.0 x 13.0	203.2 x 330.2	1	Yes
UK Quarto	8.0 x 10.0	203.2 x 254.0	1	No
Government Letter	8.0 x 10.5	203.2 x 266.7	1	Yes
Government Legal	8.5 x 13.0	215.9 x 330.2	1/3/4	Yes
Photo Size 4" x 6"/10 x 15	4.0 x 6.0	100.0 x 150.0	1	No
16 K	7.7 x 10.6	195.0 x 270.0	1	Yes
Kai 16	7.3 x 10.2	185.0 x 260.0	1	Yes
Kai 32	5.1 x 7.3	130.0 x 185.0	1	No
Japanese Postcard	3.9 x 5.8	100.0 x 148.0	1	No
Japanese Postcard-D	5.8 x 7.9	148.0 x 200.0	1	No
B5 (ISO)	6.9 x 9.8	176.0 x 250.0	1	No
Envelope #10	4.125 x 9.5	104.8 x 241.3	1	No
Envelope DL	4.3 x 8.7	110.0 x 220.0	1	No
Envelope C5	6.4 x 9.0	162.0 x 229.0	1	No
Envelope C6	4.5 x 6.4	114.0 x 162.0	1	No
Envelope Monarch	3.875 x 7.5	98.4 x 190.5	1	No
Envelope Chou #3	4.7 x 9.2	120.0 x 235.0	1	No
Envelope Chou #4	3.5 x 8.1	90.0 x 205.0	1	No
Envelope You #4	4.1 x 9.3	105.0 x 235.0	1	No
Custom, Minimum	3.6 x 5.9	92.0 x 148.0	1	No**
Custom, Maximum	8.5 x 47.2	216.0 x 1200.0	1****	No***

Notes: * Tray 1= Manual feed tray
Tray 3/4 = Lower feeder units (optional)
** The minimum possible size for duplex (double-sided) printing is B5(JIS).
*** The maximum possible size for duplex printing is Legal.
**** Banner paper longer than 355.6 mm (14.0") can only be fed through Tray 1 one sheet at a time.

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For custom sizes, use the printer driver to specify the settings within the ranges shown in the above table.

Media Types

Before purchasing a large quantity of special media, do a trial print with the same media and check the print quality.

Keep media on a flat, level surface in its original wrapper until it is time to load it. For a list of approved media, refer to printer.konicaminolta.com.

Plain Paper (Recycled Paper)

Capacity	**Tray 1 (Manual Feed Tray)**	Up to 100 sheets, depending on the paper weight.
	Tray 2/3/4	Up to 500 sheets, depending on the paper weight.
Orientation	**Tray 1 (Manual Feed Tray)**	Face down
	Tray 2/3/4	Face up
Driver Media Type	Plain Paper (Recycled)	
Weight	60–90 g/m² (16–24 lb bond)	
Duplexing	See page 104 for supported sizes.	
Glossy Mode	ON/OFF Supported *Glossy mode is Disabled at Grayscale (Color Mode), or Duplex Print.*	

Use media that is

Suitable for plain paper laser printers, such as standard or recycled office paper.

Note

Do not use the media types listed below. These could cause poor print quality, media misfeeds, or damage to the printer.

DO NOT use media that is

- Coated with a processed surface (such as carbon paper, and colored paper that has been treated)

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- Carbon backed
- Unapproved iron-on transfer media (such as heat-sensitive paper, heat-pressure paper, and heat-press transfer paper)
- Cold-water-transfer paper
- Pressure sensitive
- Designed specifically for inkjet printers (such as superfine paper, glossy paper, glossy film, and postcards)
- Paper that has already been printed on
  - Paper that has been printed on with an inkjet printer
  - Paper that has been printed on with a monochrome/color laser printer/ copier
  - Paper that has been printed on with a heat-transfer printer
  - Paper that has been printed on with any other printer or fax machine
- Dusty
- Wet (or damp)

  Keep media between 35% and 85% relative humidity. Toner does not adhere well to moist or wet paper.
- Layered
- Adhesive
- Folded, creased, curled, embossed, warped, or wrinkled
- Perforated, three-hole punched, or torn
- Too slick, too coarse, or too textured
- Different in texture (roughness) on the front and back
- Too thin or too thick
- Stuck together with static electricity
- Composed of foil or gilt; too luminous
- Heat sensitive or cannot withstand the fusing temperature (180°C [356°F])
- Irregularly shaped (not rectangular or not cut at right angles)
- Attached with glue, tape, paper clips, staples, ribbons, hooks, or buttons
- Acidic
- Any other media that is not approved

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Thick Stock

Paper thicker than 90 g/m^2 (24 lb bond) is referred to as thick stock. Test all thick stock to ensure acceptable performance and to ensure that the image does not shift.

Capacity	**Tray 1 (Manual Feed Tray)**	Up to 20 thick stock sheets, depending on their thickness.
	Tray 2/3/4	Not supported
Orientation	Face down	
Driver Media Type	Thick 1 (91-150 g/m^2) Thick 2 (151-210 g/m^2)	
Weight	91–210 g/m² (25–55.9 lb bond)	
Duplexing	Not supported	
Glossy Mode	ON/OFF Supported *Glossy mode is Disabled at Grayscale (Color Mode), or Duplex Print.*	

DO NOT use thick stock that is

- Mixed with any other media (as this will cause printer misfeeding)

Envelopes

Print on the front (address) side only. Some parts of the envelope consist of three layers of paper—the front, back, and flap. Anything printed in these layered regions may be lost or faded.

Capacity	**Tray 1 (Manual Feed Tray)**	Up to 10 envelopes, depending on their thickness
	Tray 2/3/4	Not supported
Orientation	Face down	
Driver Media Type	Envelope	
Weight	91–163 g/m² (25–43 lb bond)	
Duplexing	Not supported	
Glossy Mode	Not supported	

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Use envelopes that are

- Common office envelopes approved for laser printing with diagonal joints, sharp folds and edges, and ordinary gummed flaps

  Because the envelopes pass through heated rollers, the gummed area on the flaps may seal. Using envelopes with emulsion-based glue avoids this problem.

- Approved for laser printing
- Dry

DO NOT use envelopes that have

- Sticky flaps
- Tape seals, metal clasps, paper clips, fasteners, or peel-off strips for sealing
- Transparent windows
- Too rough of a surface
- Material that will melt, vaporize, offset, discolor, or emit dangerous fumes
- Been presealed

Labels

A sheet of labels consists of a face sheet (the printing surface), adhesive, and a carrier sheet:

- The face sheet must follow the plain paper specification.
- The face sheet surface must cover the entire carrier sheet, and no adhesive should come through on the surface.

You can print continuously with label sheets. However, this could affect the media feed, depending on the media quality and printing environment. If problems occur, stop the continuous printing and print one sheet at a time.

Try printing your data on a sheet of plain paper first to check placement. Check your application documentation for more information on printing labels.

Capacity	**Tray 1 (Manual Feed Tray)**	Up to 20 label sheets, depending on their thickness
	Tray 2/3/4	Not supported
Orientation	Face down	
Driver Media Type	Label	
Weight	60–163 g/m² (16–43 lb bond)	
Duplexing	Not supported	

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Glossy Mode	ON/OFF Supported *Glossy mode is Disabled at Grayscale (Color Mode), or Duplex Print.*

Use label sheets that are

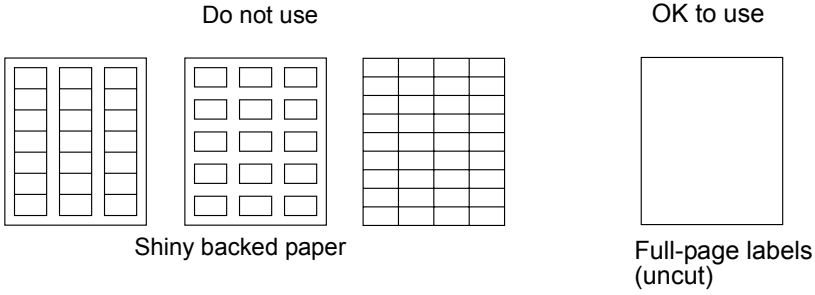
- Recommended for laser printers
- Letter or A4 size (adhesive label stock)

DO NOT use label sheets that

- Have labels that easily peel off or have parts of the label already removed
- Have backing sheets that have peeled away or have exposed adhesive

  Labels may stick to the fuser, causing them to peel off and media misfeeds to occur.

- Are precut or perforated



Letterhead

Try printing your data on a sheet of plain paper first to check placement.

Capacity	**Tray 1 (Manual Feed Tray)**	Up to 20 sheets, depending on their size and thickness
	Tray 2/3/4	Not supported
Orientation	Face down	
Driver Media Type	Letterhead	
Weight	60–90 g/m² (16–24 lb)	
Duplexing	See page 104 for supported sizes.	

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Glossy Mode	ON/OFF Supported *Glossy mode is Disabled at Grayscale (Color Mode), or Duplex Print.*

Postcards

Try printing your data on a sheet of plain paper first to check placement.

Capacity	**Tray 1 (Manual Feed Tray)**	Up to 20 postcards, depending on their thickness
	Tray 2/3/4	Not supported
Orientation	Face down	
Driver Media Type	Postcard	
Weight	60–163 g/m² (16–90 lb bond)	
Duplexing	Not supported	
Glossy Mode	ON/OFF Supported *Glossy mode is Disabled at Grayscale (Color Mode), or Duplex Print.*	

Use postcards that are

- Approved for laser printers

DO NOT use postcards that are

- Coated
- Designed for inkjet printers
- Precut or perforated
- Preprinted or multicolored

If the postcard is warped, press on the warped area before putting it in the tray.

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Transparencies

Do not fan transparencies before loading them. Resulting static electricity may cause printing errors.

If you touch the face of the transparencies with your bare hands, print quality may be affected.

Keep the printer path clean. Transparencies are especially sensitive to a dirty media path. If there are shadows on either the top or the bottom of the sheets, see chapter 9, "Maintaining the Printer" .

Remove transparencies as soon as possible from the output tray to avoid static buildup.

You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment.

Try printing your data on a sheet of plain paper first to check placement.

If you have problems feeding 20 sheets, try loading only 1–10 sheets at a time. Loading a large number of transparencies at one time may cause static buildup, thus causing feeding problems.

Capacity	**Tray 1 (Manual Feed Tray)**	Up to 20 transparencies, depending on their thickness
	Tray 2/3/4	Not supported
Orientation	Face down	
Driver Media Type	Transparency	
Duplexing	Not supported	
Glossy Mode	Not supported	

Always first test a small quantity of a particular type of transparency.

Use transparencies that are

- Approved for laser printing

DO NOT use transparencies that

- Have static electricity that will cause them to stick together
- Are specified for inkjet printers only

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Glossy Media

Test all glossy media to ensure acceptable performance and to ensure that the image does not shift.

Capacity	**Tray 1 (Manual Feed Tray)**	Up to 20 glossy media sheets, depending on their thickness.
	Tray 2/3/4	Not supported
Orientation	Face down	
Driver Media Type	Glossy 1 (100-128 g/m^2) Glossy 2 (129-158 g/m^2)	
Weight	100–158 g/m² (26.5–42 lb bond)	
Duplexing	Not supported	
Glossy Mode	ON/OFF Supported *Glossy mode is Disabled at Grayscale (Color Mode), or Duplex Print.*	

DO NOT use glossy media stock that is

- Mixed with any other media (as this will cause printer misfeeding)

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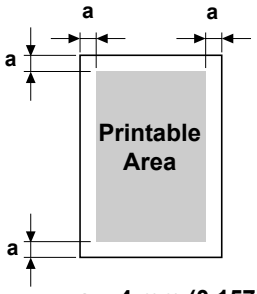
What Is the Guaranteed Imageable (Printable) Area?

The printable area on all media sizes is up to 4 mm (0.157") from the edges of the media.

Each media size has a specific imageable area, the maximum area on which the printer can print clearly and without distortion.

This area is subject to both hardware limits (the physical media size and the margins required by the printer) and software constraints (the amount of memory available for the full-page frame buffer). The guaranteed imageable (printable) area for all media sizes is the page size minus 4 mm (0.157") from all edges of the media.



a = 4 mm (0.157")

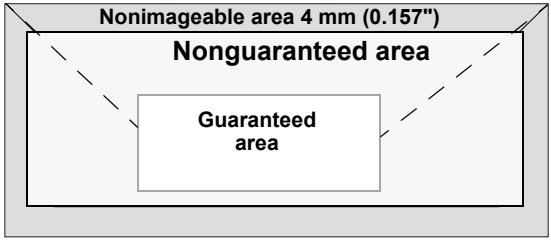
When printing on banner paper, the bottom margin is 10 mm (0.393"). Image quality of banner paper isn't guaranteed.

Banner paper
Weight: 127-160g/m²
Width: 216mm
Length: 357-1200mm

Imageable Area—Envelopes

Envelopes have a nonguaranteed imageable area that varies with envelope type.

The envelope print orientation is determined by your application.



Page Margins

Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page in your application, use those sizes given for the imageable area for optimum results.

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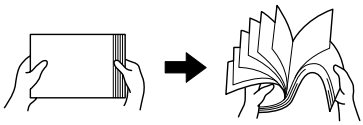
Loading Media

How do I load media?

Take off the top and bottom sheets of a ream of paper. Holding a stack of approximately 100 sheets at a time, fan the stack to prevent static buildup before inserting it in a tray.



Do not fan transparencies.

Note

Although this printer was designed for printing on a wide range of media types, it is not intended to print exclusively on a single media type except plain paper. Continuous printing on media other than plain paper (such as envelopes, labels, thick stock, or transparencies) may adversely affect print quality or reduce engine life.

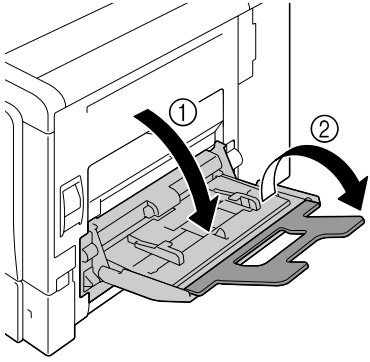
When refilling media, first remove any media remaining in the tray. Stack it with the new media, even the edges, then reload it.

Tray 1 (Manual Feed Tray)

For details on the types and sizes of media that can be printed from Tray 1, refer to “Media Specifications” on page 104.

Loading Plain Paper

1 Open Tray 1.



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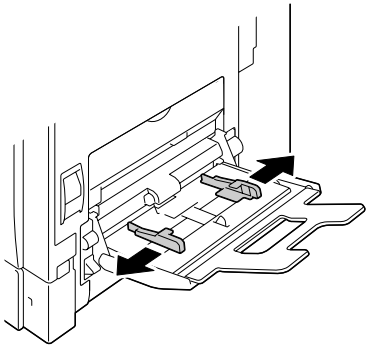
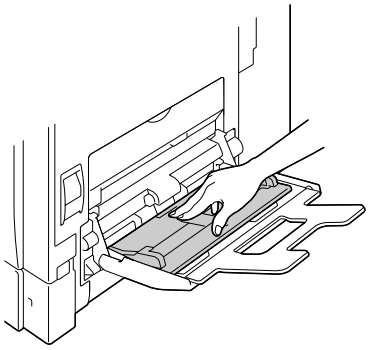
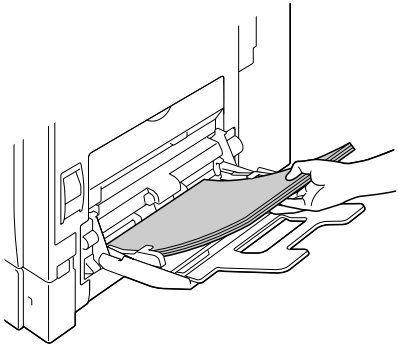
2 Slide the media guides to provide more space between them.



3 Press down on the center of the paper-lifting plate until the left and right locking tabs (white) lock into place.



4 Load the paper face down in the tray.



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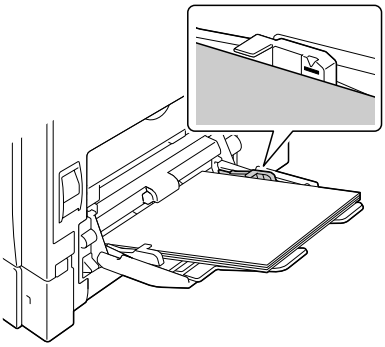
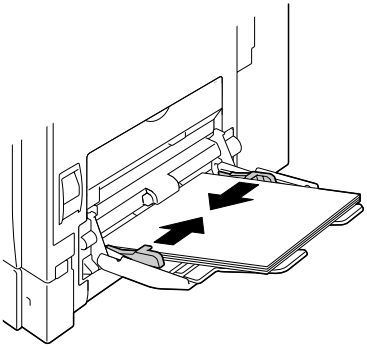
Do not load paper above the line. Up to 100 sheets (80 g/m^2 [22 lb]) of plain paper can be loaded into the tray at one time.



5 Slide the media guides against the edges of the paper.



6 Select PAPER MENU/PAPER SOURCE/TRAY 1/PAPER SIZE and PAPER TYPE in the configuration menu, and then select the setting for the size and type of paper that are loaded. See also “PAPER MENU” on page 39.

When printing from Tray 1 with the corresponding Paper Source setting in the printer driver Tray1 (Manual Feed), it is not necessary to change the configuration menu setting.

Other Media

When loading media other than plain paper, set the media mode (Envelope, Label, Thick 1, Thick 2, Glossy 1, Glossy 2, or Transparency) in the driver for optimum print quality.

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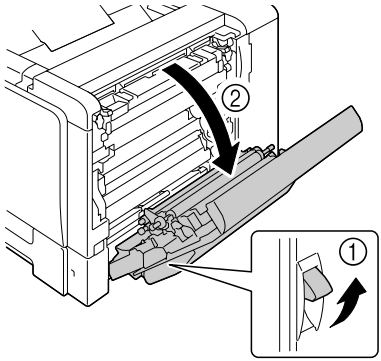
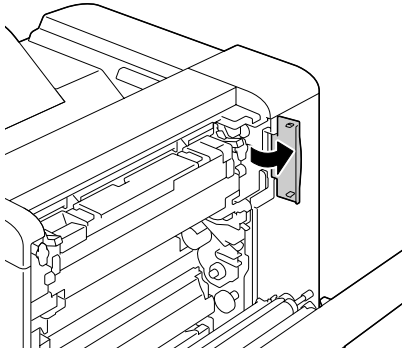
Loading Envelopes

1 Pull the lever, and then open the right side cover.

Before opening the right side cover, fold up Tray 1.



2 Open the door at the side of the right side cover.



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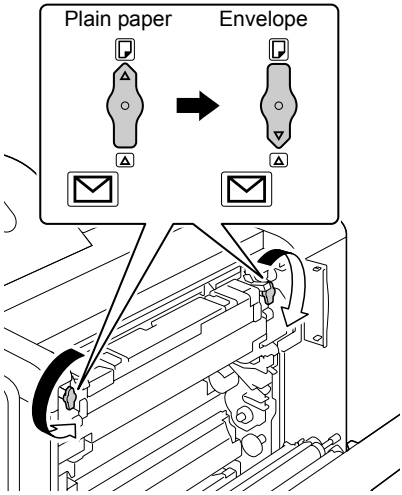
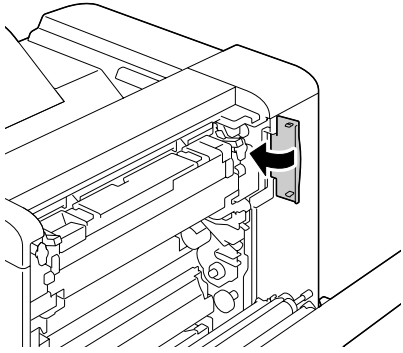
3 Turn the two dials on the fuser unit to the setting for envelopes.



4 Close the door at the side of the right side cover.



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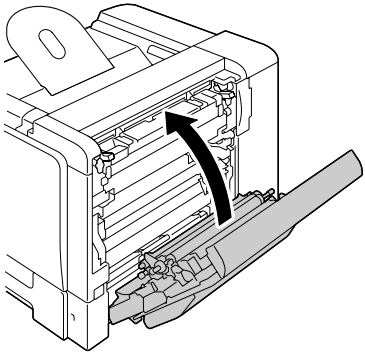
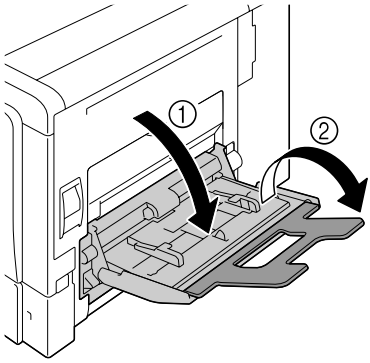
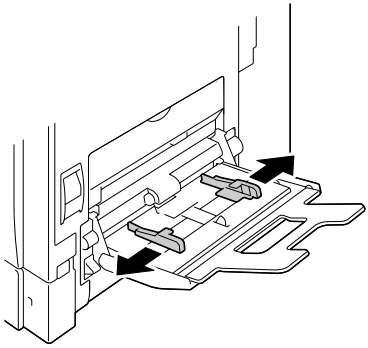
5 Close the right side cover.



6 Open Tray 1.



7 Slide the media guides to provide more space between them.



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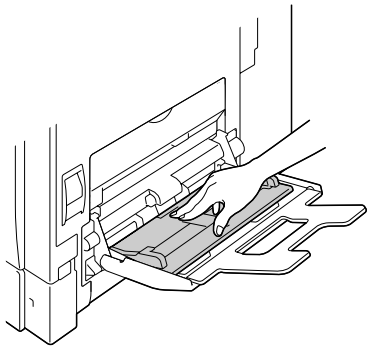
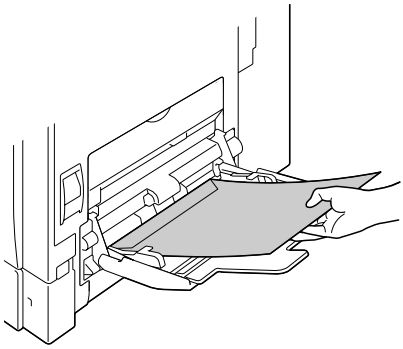
8 Press down on the center of the paper-lifting plate until the left and right locking tabs (white) lock into place.



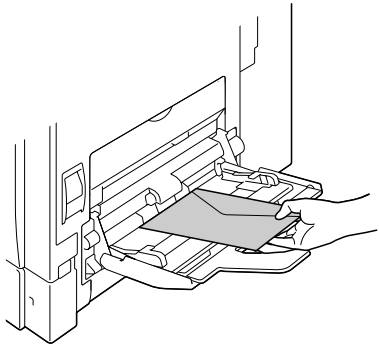
9 Load the envelopes flap side up in the tray.

Before loading envelopes, press them down to make sure that all air is removed, and make sure that the folds of the flaps are firmly pressed; otherwise the envelopes may become wrinkled or a media misfeed may occur.



Up to 10 envelopes can be loaded into the tray at one time.

For envelopes with the flap along the long edge, load the envelopes with the flap toward the right of Tray 1.



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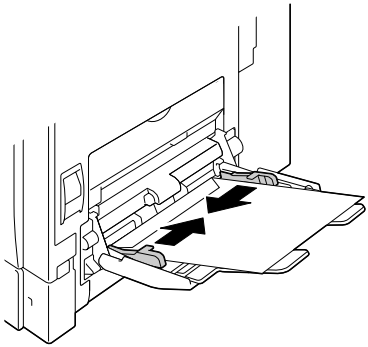
10 Slide the media guides against the edges of the envelopes.

Before printing on plain paper, be sure to return the dials on the fuser unit to the setting for plain paper.

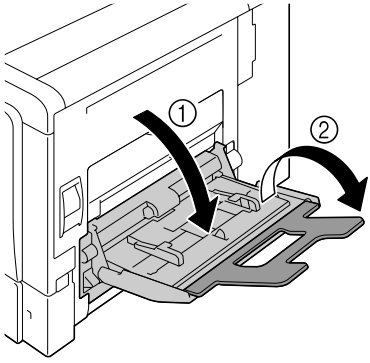


11 Select `PAPER MENU/PAPER SOURCE/TRAY 1/PAPER SIZE` and `PAPER TYPE` in the configuration menu, and then select the setting for the size and type of paper that are loaded. See also “PAPER MENU” on page 39.

When printing from Tray 1 with the corresponding Paper Source setting in the printer driver Tray1 (Manual Feed), it is not necessary to change the configuration menu setting.

Loading Label Sheets/Postcards/Thick Stock/Glossy Media and Transparencies

1 Open Tray 1.



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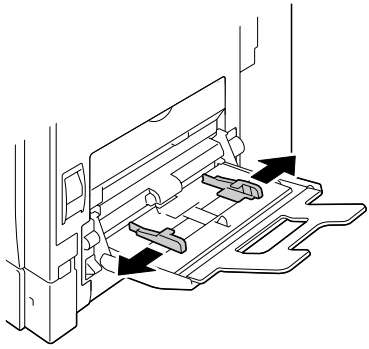
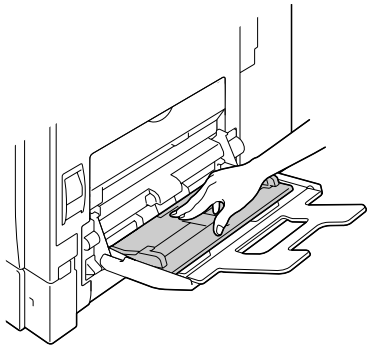
2 Slide the media guides to provide more space between them.

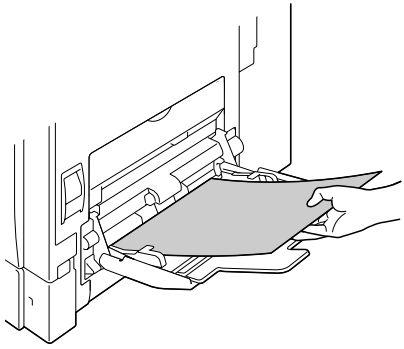


3 Press down on the center of the paper-lifting plate until the left and right locking tabs (white) lock into place.



4 Load the media face down in the tray.

Up to 20 sheets can be loaded into the tray at one time.



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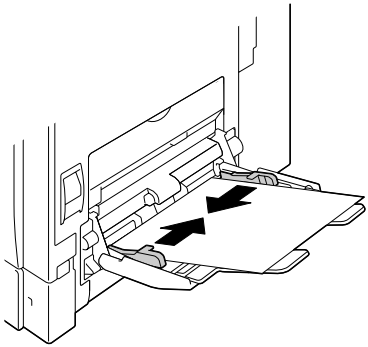
5 Slide the media guides against the edges of the media.



6 Select PAPER MENU/PAPER SOURCE/TRAY 1/PAPER SIZE and PAPER TYPE in the configuration menu, and then select the setting for the size and type of paper that are loaded. See also “PAPER MENU” on page 39.

When printing from Tray 1 with the corresponding Paper Source setting in the printer driver Tray1 (Manual Feed), it is not necessary to change the configuration menu setting.

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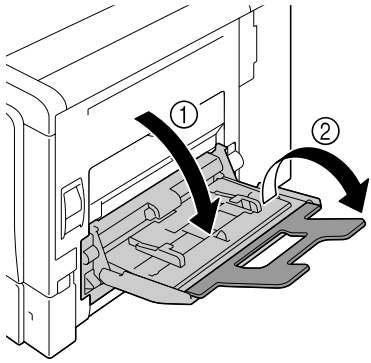
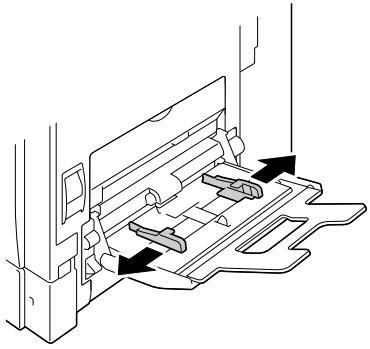
Loading Banner Paper

Paper up to 1200 mm long can be loaded into the bypass tray and printed one at a time.

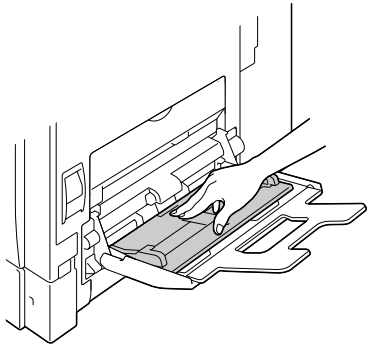
1 Open Tray 1.



2 Slide the media guides to provide more space between them.



3 Press down on the center of the paper-lifting plate until the left and right locking tabs (white) lock into place.



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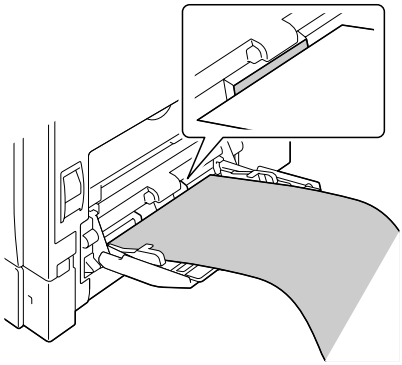
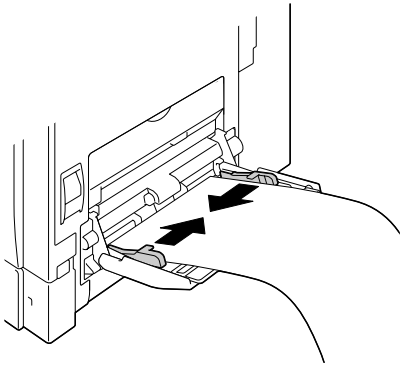
4 With the side of the banner paper to be printed on facing down, insert the end of the paper as much as possible into the feed slot.

One sheet of banner paper can be loaded into the tray at one time.

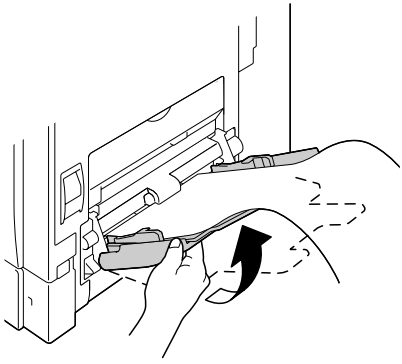
In order to avoid toner smudges, do not load curled paper.



5 Slide the media guides against the edges of the banner paper.



6 Raise the bypass tray, and secure the banner paper. Return the bypass tray to its original position.



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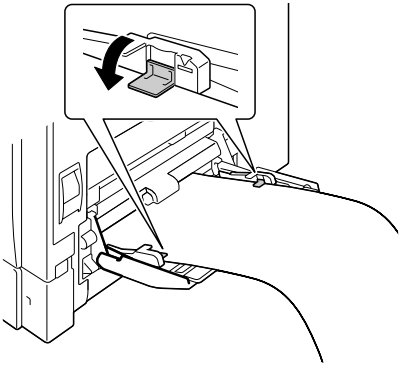
7 Secure the banner paper with the left and right media guides.

When printing multiple copies on banner paper, repeat the procedure starting from step 2.



8 Select Tray 1(Manual Feed) from the Paper Source list and specify a custom size in the Original Size list of the printer driver, and then print.

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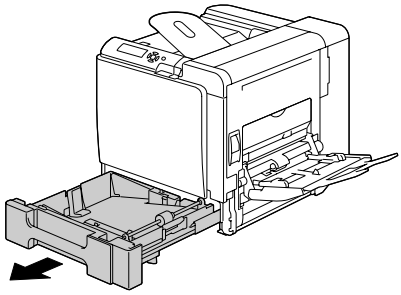
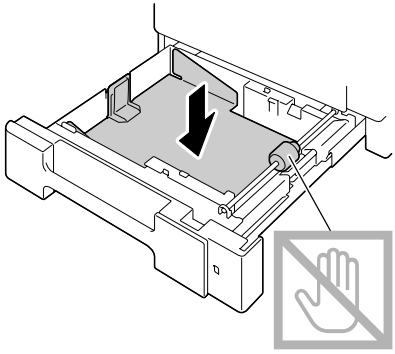
Tray 2

Loading Plain Paper

1 Pull out Tray 2.



2 Press down the media pressure plate to lock it into place.



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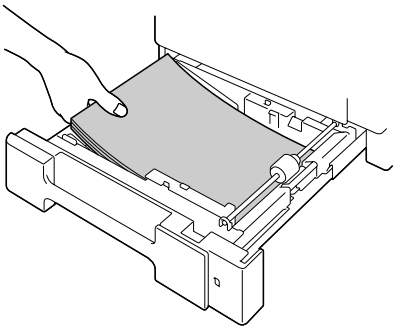
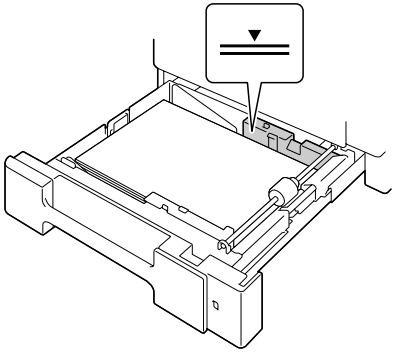
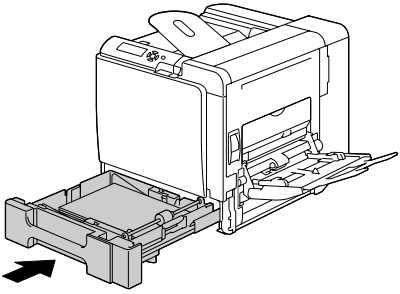
3 Load the paper face up in the tray.



Do not load above the ▼ mark. Up to 500 sheets (80 g/m^2 [22 lb]) of plain paper can be loaded into the tray at one time.



4 Close Tray 2.



5 Select `PAPER MENU/PAPER SOURCE/TRAY 2/PAPER SIZE` and `PAPER TYPE` in the configuration menu, and then select the setting for the size and type of paper that are loaded. See also “PAPER MENU” on page 39.

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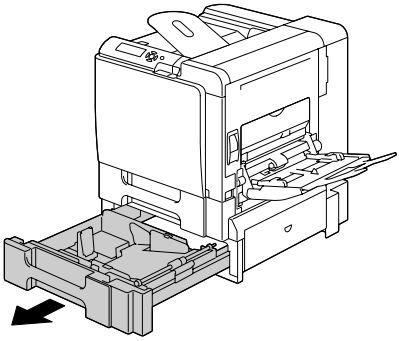
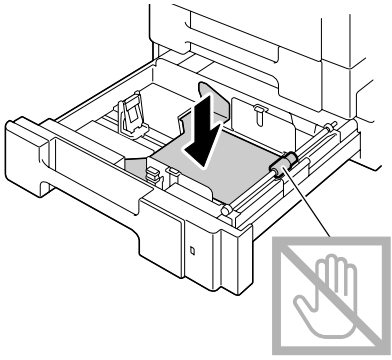
Tray 3/4 (Optional Lower Feeder Units)

Loading Plain Paper

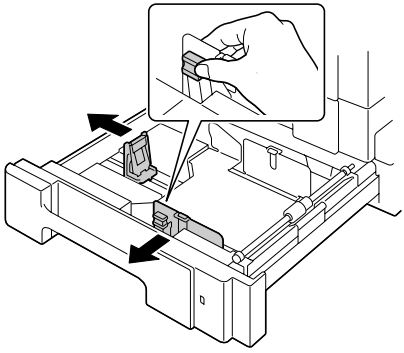
1 Pull out Tray 3 (Tray 4).



2 Press down the media pressure plate to lock it into place.



3 Slide the media guides to provide more space between them.



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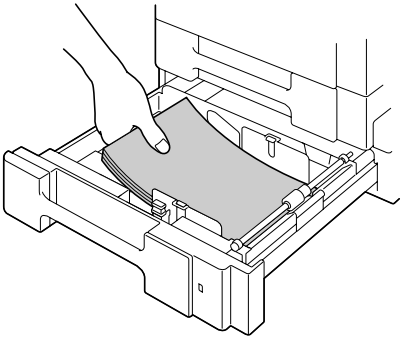
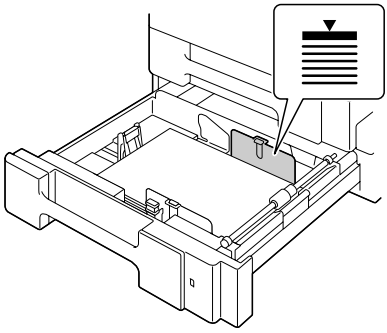
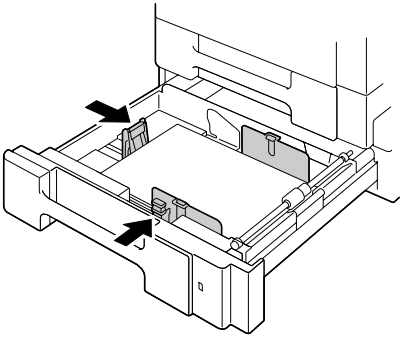
4 Load the paper face up in the tray.



Do not load above the ▼ mark. Up to 500 sheets (80 g/m^2 [22 lb]) of plain paper can be loaded into the tray at one time.



5 Slide the media guides against the edges of the paper.



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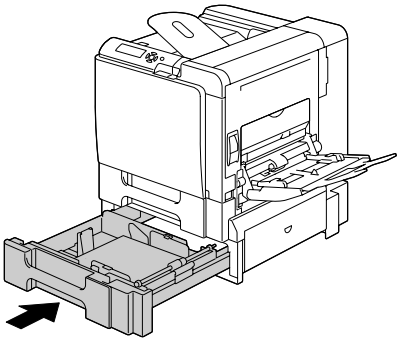
6 Close Tray 3 (Tray 4).



7 Select PAPER MENU/PAPER SOURCE/TRAY 3 (or TRAY 4)/ PAPER TYPE in the configuration menu, and then select the setting for the type of paper that is loaded. See also “PAPER MENU” on page 39.

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Duplexing

Select paper with high opacity for duplex (double-sided) printing. Opacity refers to how effectively paper blocks out what is written on the opposite side of the page. If the paper has low opacity (high translucency), then the printed data from one side of the page will show through to the other side. Check your application for margin information. For best results, print a small quantity to make sure the opacity is acceptable.

Duplex (double-sided) printing can be done manually or can be done automatically with the duplex option installed and selected.

Note

Only plain paper, 60–90 g/m^2 (16–24 lb bond) can be autoduplexed. See “Media Specifications” on page 104.

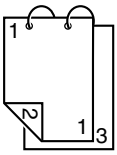
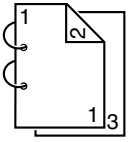
Duplexing envelopes, labels, letterhead, postcards, thick stock, glossy media or transparencies is not supported.

How do I autoduplex?

You should verify that the duplex option is physically installed on the printer to successfully duplex (double-sided) the job.

Check your application to determine how to set your margins for duplex (double-sided) printing.

The following Binding Position settings are available.

	If “Short Edge” is selected, the pages will be laid out to flip at the top.
	If “Long Edge” is selected, the pages will be laid out to flip at the side.

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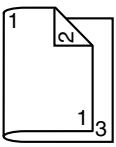
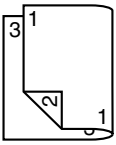
In addition, if “N-up” has been set to “Booklet”, autoduplex printing is performed.

The following Order settings are available when “Booklet” is selected.

	If “Left Binding” is selected, the pages can be folded as a left-bound booklet.
	If “Right Binding” is selected, the pages can be folded as a right-bound booklet.

1 Load plain paper into the tray.

2 From the printer driver, specify duplex (double-sided) printing (Layout tab in Windows).

3 Click **OK**.

With autoduplexing, the back side is printed first, and then the front side is printed.

Output Tray

All printed media is output to the face-down output tray on top of the printer. This tray has a capacity of approximately 250 sheets (A4/Letter) of 80 g/m^2 (22 lb) paper.

If the media is stacked too high in the output tray, your printer may experience media misfeeds, excessive media curl, or static buildup.

Remove transparencies as soon as possible from the output tray to avoid static buildup.

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Finishing

When the optional staple finisher is installed, job separation, offset and staple printing can be performed. For the installation procedure, refer to “Staple Finisher” on page 250. Settings can be specified for job separation, offset and staple printing by selecting JOB SEPARATION or FINISHING in PAPER MENU.

Use the following paper with job separation, offset and staple printing.

Media Types	Plain paper, Recycled paper and Letterhead (changes according to the paper thickness)
Media Size	Width: 182 to 216 mm Length: 257 to 355.6 mm

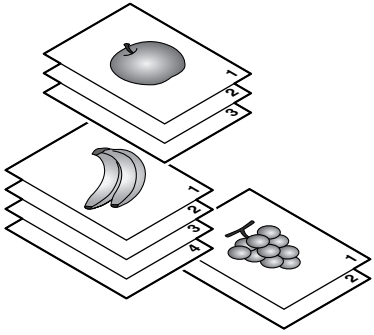
Paper is fed to the main output tray with job separation, offset and staple printing.

Job Separation Printing

When paper is fed to the main output tray, the pages are fed out shifted as shown below.

When paper is fed to the sub output tray, the pages are fed out stacked on top of each other without begin shifted.

If staple printing is selected, the pages are stapled together before being fed out.



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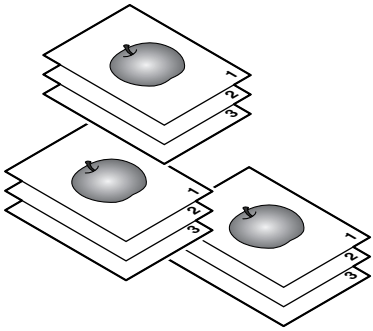
Offset Printing

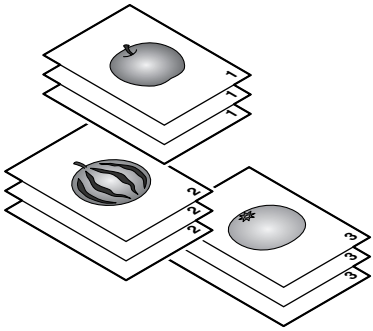
If offset printing is selected, the paper is fed out shifted as shown below.

When PAPER MENU/COLLATE is set to ON, the pages are fed out in sets as shown below.

- When COLLATE is set to ON



- When COLLATE is set to OFF



Staple printing

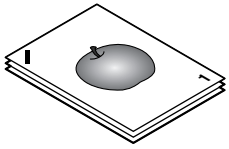
Pages are stapled and fed out by job or by copy set as shown below.

Page in the portrait orientation are stapled in the upper-left corner.

The copies can be stapled when they contain 2 to 30 pages (3 to 60 pages when double-sided).

If staple printing is selected when COLLATE is set to ON, the pages are stapled before being fed out. If staple printing is selected when COLLATE is set to OFF, the pages are not stapled before being fed out (except when only one copy is being printed).

When copies are stapled, they are not fed out shifted as with offset printing or job separation printing. Instead, they are fed out at the same position.



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Media Storage

How do I store media?

- Keep media on a flat, level surface in its original wrapper until it is time to load it.

  Media that has been stored for a long time out of its packaging may dry up too much and cause misfeeding.

- If media has been removed from its wrapper, place it in its original packaging and store in a cool, dark place on a level surface.
- Avoid moisture, excessive humidity, direct sunlight, excessive heat (above 35°C [95°F]), and dust.
- Avoid leaning media against other objects or placing it in an upright position.

Before using stored media, do a trial print to check print quality.

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8 Replacing Consumables

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Replacing Consumables

Note

Failure to follow instructions as outlined in this manual could result in voiding your warranty.

Note

If an error message (`TONER OUT`, `TRANS.BELT END OF LIFE`, etc.) appears, print out the configuration page, and then check the status of the other consumables. For details on the error messages, refer to "Error Messages (Warning:)" on page 220. For details on printing the configuration page, refer to "Printing a Configuration Page" on page 180.

About Toner Cartridges

Your printer uses four toner cartridges: black, yellow, magenta, and cyan. Handle the toner cartridges carefully to avoid spilling toner inside the printer or on yourself.

Install only new toner cartridges in your printer. If a used toner cartridge is installed, the indicator message will not clear and the supplies status in the Status Monitor will not be updated.

The toner is nontoxic. If you get toner on your skin, wash it off with cool water and a mild soap. If you get toner on your clothes, lightly dust them off as best as you can. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off.

CAUTION

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor.

Note

Do not use refilled toner cartridges or unapproved toner cartridges. Any damage to the printer or quality problems caused by a refilled toner cartridge or an unapproved toner cartridge will void your warranty. No technical support is provided to recover from these problems.

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When replacing a toner cartridge, refer to the following table. For optimum print quality and performance, use only approved KONICA MINOLTA toner cartridges for your specific printer type, as listed in the table below. You can find your printer type and the toner cartridge part numbers on the consumables reorder label inside the front cover your printer.

Printer Type	Printer Parts Number	Toner Cartridge Type	Toner Cartridge Parts Number
AM	A0EA 014	High-Capacity Toner Cartridge -Black (K)	A06V 134
		High-Capacity Toner Cartridge -Yellow (Y)	A06V 234
		High-Capacity Toner Cartridge -Magenta (M)	A06V 334
		High-Capacity Toner Cartridge -Cyan (C)	A06V 434
EU	A0EA 024	High-Capacity Toner Cartridge -Black (K)	A06V 154
		High-Capacity Toner Cartridge -Yellow (Y)	A06V 254
		High-Capacity Toner Cartridge -Magenta (M)	A06V 354
		High-Capacity Toner Cartridge -Cyan (C)	A06V 454

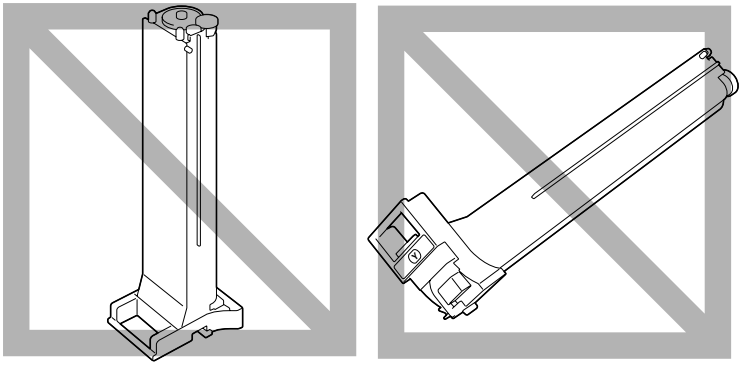
For optimum print quality and performance, use only the corresponded TYPE genuine KONICA MINOLTA toner cartridges.

Keep toner cartridges:

- In their packaging until you're ready to install them.
- In a cool, dry location away from sunlight (due to heat).

  The maximum storage temperature is 35°C (95°F) and the maximum storage humidity is 85% (noncondensing). If the toner cartridge is moved from a cold place to a warm, humid place, condensation may occur, degrading print quality. Allow the toner to adapt to the environment for about one hour before use.
- Level during handling and storage.

  Do not hold, stand or store cartridges on their ends or turn them upside down; the toner inside the cartridges may become caked or unequally distributed.



- Away from salty air and corrosive gases such as aerosols.

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Replacing a Toner Cartridge

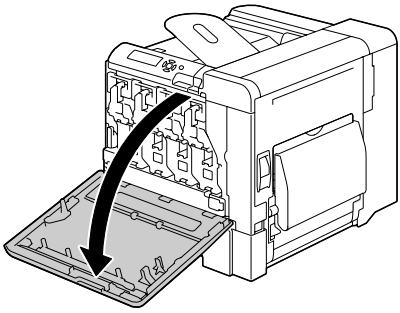
Note

Be careful not to spill toner while replacing a toner cartridge. If toner spills, immediately wipe it off with a soft, dry cloth.

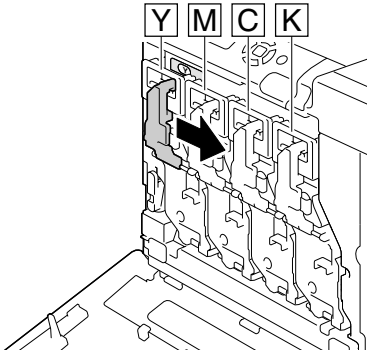
If TONER LOW on the SYS DEFAULT MENU/ENABLE WARNING is set to ON, the message TONER LOW X (where "X". represents the color of the toner) appears when toner cartridge becomes empty. Follow the steps below to replace the toner cartridge.

If TONER LOW on the SYS DEFAULT MENU/ENABLE WARNING is set to OFF, you are advised to replace the indicated toner cartridge when the message TONER OUT X appear.

1 Open the printer's front cover.



2 Pull the front lever of the color toner cartridge indicated to the right.
The replacement procedure for the toner cartridge is the same for all colors (yellow: Y, magenta: M, cyan: C, and black: K).
The following instructions show the procedure to replace the toner cartridge (Y).



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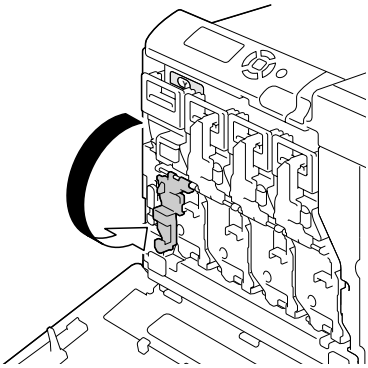
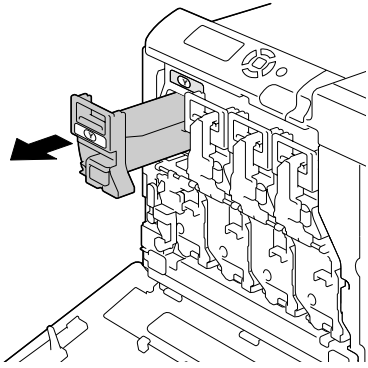
3 Lower the lever to release the lock.



4 *Grab the handle of the toner cartridge to be replaced, and then pull out the cartridge.*
The following instructions show the procedure to replace the toner cartridge (Y).



Note

Dispose of the used toner cartridge according to your local regulations.
Do not burn the toner cartridge.
For details, refer to "About Toner Cartridges" on page 138.

5 Check the color of the new toner cartridge to be installed.

6 Remove the toner cartridge from the bag.

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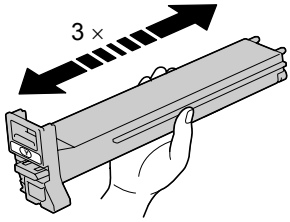
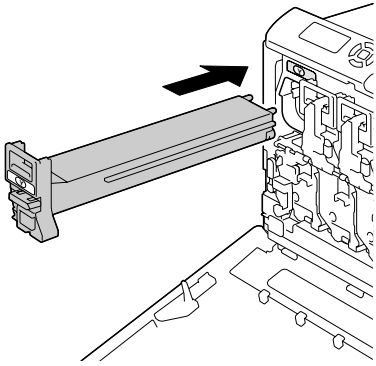
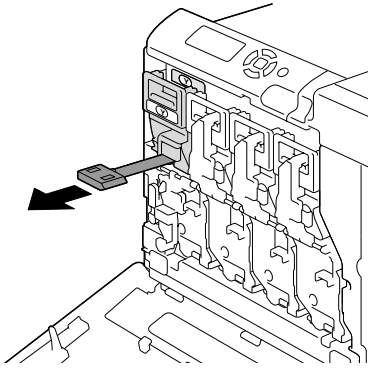
7 Shake the cartridge to distribute the toner.



8 *Make sure that the toner cartridge is the same color as the printer compartment, and then insert the toner cartridge into the printer.*



9 Make sure that the toner cartridge is securely installed, and then peel off the protective film.



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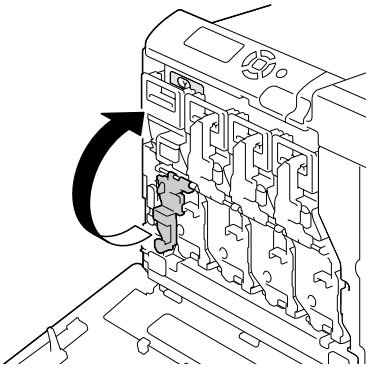
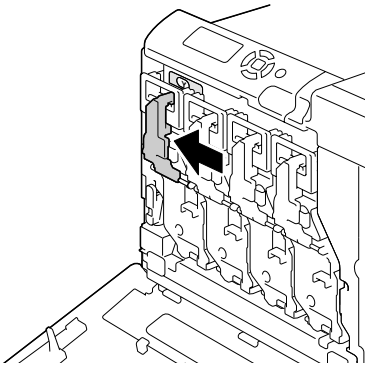
10 Raise the front lever to its original position.

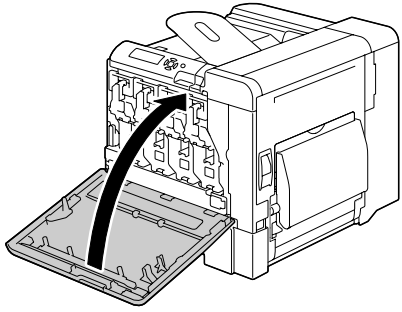


11 Pull the lever to the left to lock it in place.

The front lever should be securely returned to its original position; otherwise, the front cover of the printer cannot be closed.



12 Close the front cover.



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Replacing a Print Unit

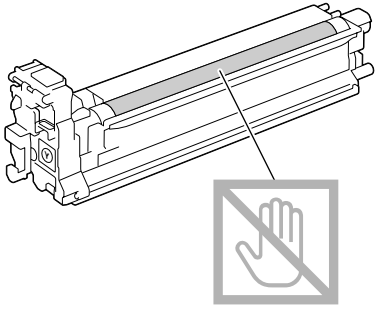
When replacing a print unit, refer to the following table. For optimum print quality and performance, use only approved KONICA MINOLTA print units for your specific printer type, as listed in the table below. You can find your printer type and the print unit part numbers on the consumables reorder label inside the front cover your printer.

Printer Type	Printer Parts Number	Print Unit Type	Print Unit Parts Number
AM	A0EA 014	Print Unit - Black (K)	A031 00G
		Print Unit - Yellow (Y)	A031 05G
		Print Unit - Magenta (M)	A031 0AG
		Print Unit - Cyan (C)	A031 0GG
EU	A0EA 024	Print Unit - Black (K)	A031 00J
		Print Unit - Yellow (Y)	A031 05J
		Print Unit - Magenta (M)	A031 0AJ
		Print Unit - Cyan (C)	A031 0GJ

"I-UNIT" displayed in the control panel refers to the print unit.

Note

Do not touch the OPC drum surface. This could lower image quality.



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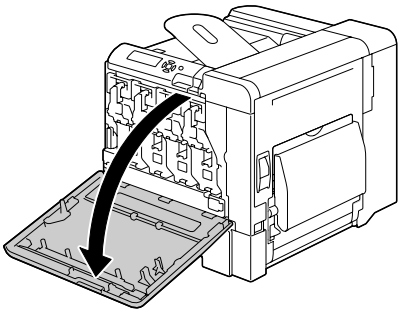
If I-UNIT LOW on the SYS DEFAULT MENU/ENABLE WARNING is set to ON, the message I-UNIT LOW X (where "X". represents the color of the toner) appears when a print unit becomes empty. Follow the steps below to replace the print unit.

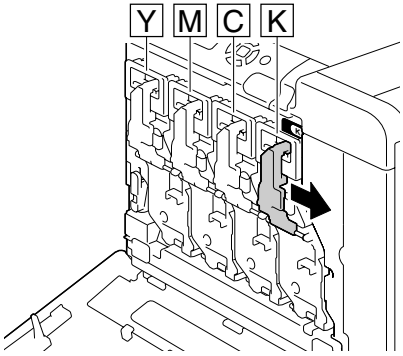
You are advised to replace the indicated print unit when the message I-UNIT LIFE X appears.

1 Check the message window to see which color print unit needs replacing.

2 Open the printer's front cover.



3 Pull the front lever of the color toner cartridge indicated to the right.
The replacement procedure for the toner cartridge is the same for all colors (yellow: Y, magenta: M, cyan: C, and black: K).
The following instructions show the procedure to replace the toner cartridge (Y).



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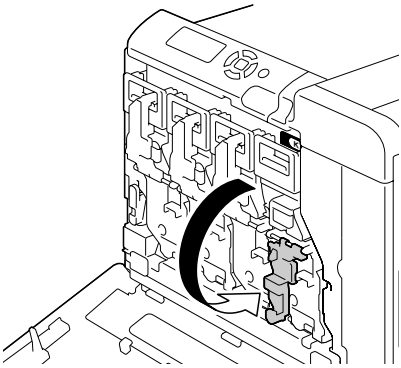
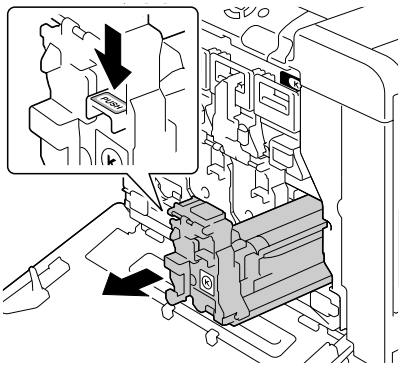
4 Lower the lever to release the lock.



5 Press down the area marked “Push” on the print unit to be replaced, and then slide the unit all the way out of the printer.

The following instructions show the procedure to replace the print unit (K).



Note

Dispose of the used print unit according to your local regulations. Do not burn the print unit.

6 Check the color of the new print unit to be installed.

In order to prevent toner from spilling, leave the print unit in the bag until step 5 is being performed.

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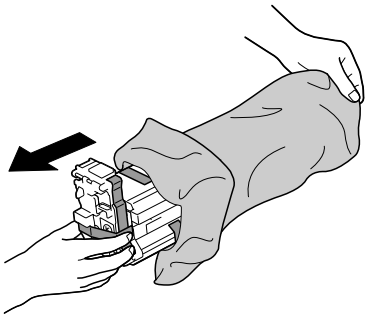
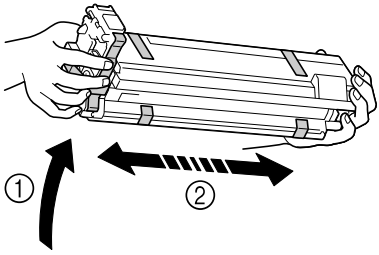
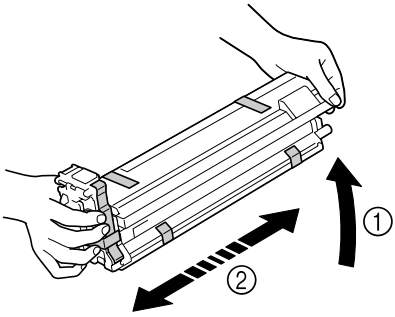
7 Remove the print unit from the bag.



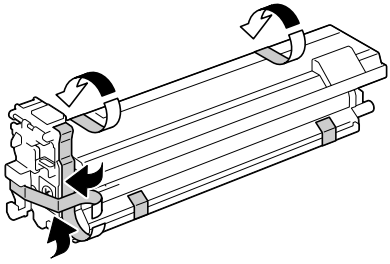
8 Hold the print unit with both hands, and then shake it twice as shown in the illustration.

Do not grab the bottom of the bag; otherwise, the print unit may be damaged, resulting in decreased print quality.





9 Remove all packing tape from the print unit.



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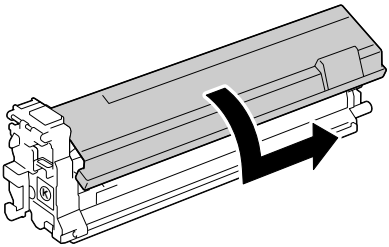
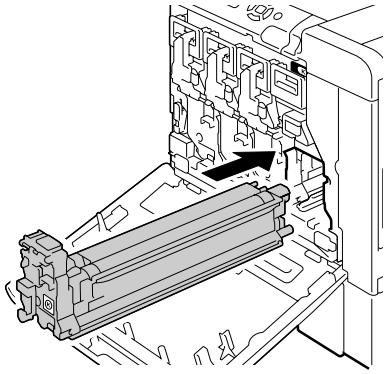
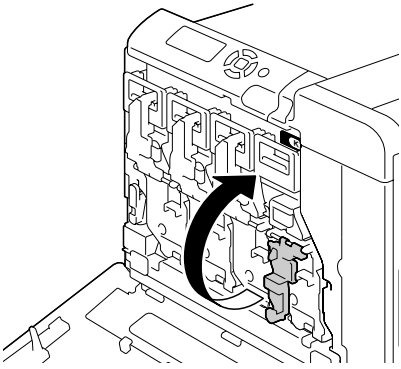
10 Remove the protective cover from the print unit. The protective cover slides after having turned.



11 Make sure that the new print unit to be installed is the same color as the printer compartment, and then install the print unit in the printer.



12 Raise the front lever to its original position.



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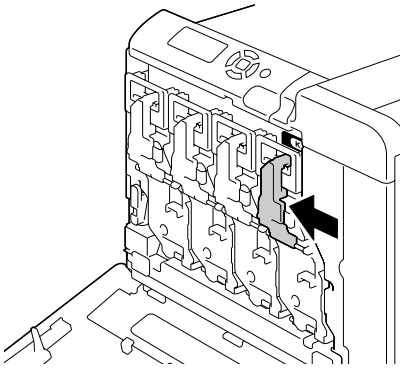
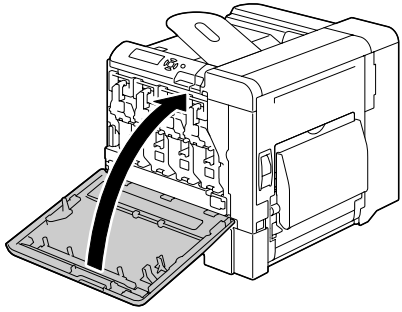
13 Pull the lever to the left to lock it in place.

The front lever should be securely returned to its original position; otherwise, the front cover of the printer cannot be closed.



14 Close the front cover.



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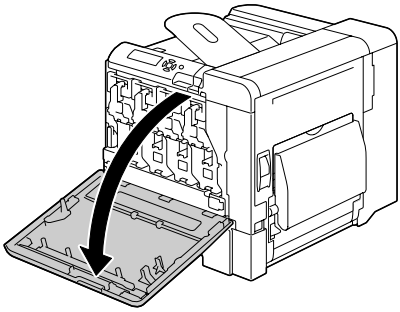
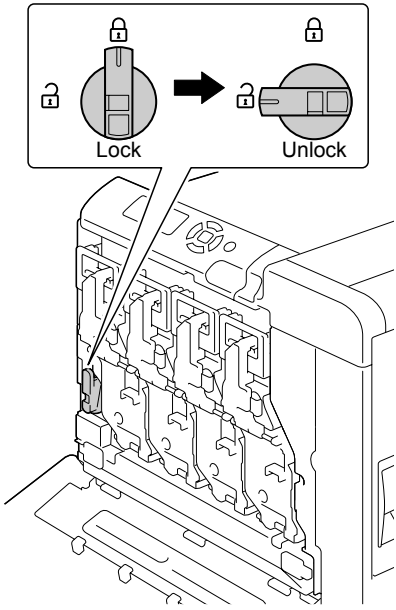
Replacing the Waste Toner Bottle

When the waste toner bottle becomes full, the message `WASTE TONER FULL/REPLACE BOTTLE` appears in the message window. The printer stops and will not start again until the waste toner bottle is replaced.

1 Open the printer's front cover.



2 Turn the dial on the waste toner bottle counterclockwise until it is in the unlock position.



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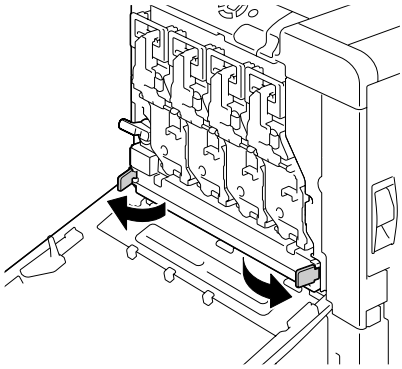
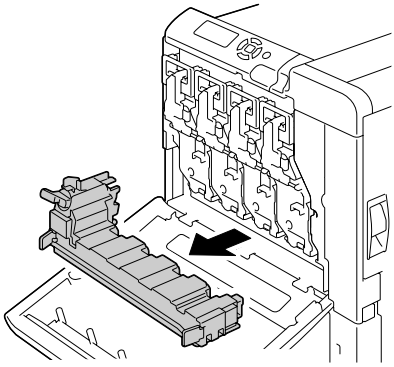
3 Open the left and right handles of the waste toner bottle.



4 Grab the left and right handles of the waste toner bottle, and then slowly pull out the bottle.

Be careful since some waste toner may spill if the lock is closed when the waste toner bottle is removed.



5 Remove the new waste toner bottle from its packaging. Insert the used waste toner bottle into the plastic bag included in the box, and then box it up.

Note

Dispose of the used waste toner bottle according to your local regulations. Do not burn the waste toner bottle.

Before installing the waste toner bottle, be sure that the dial on the waste toner bottle is unlocked.

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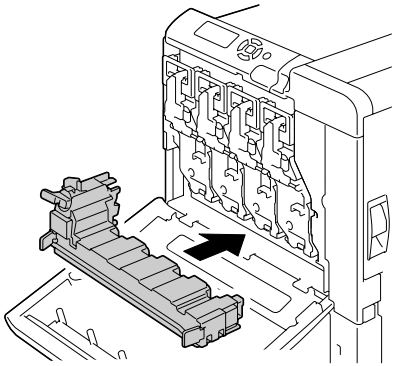
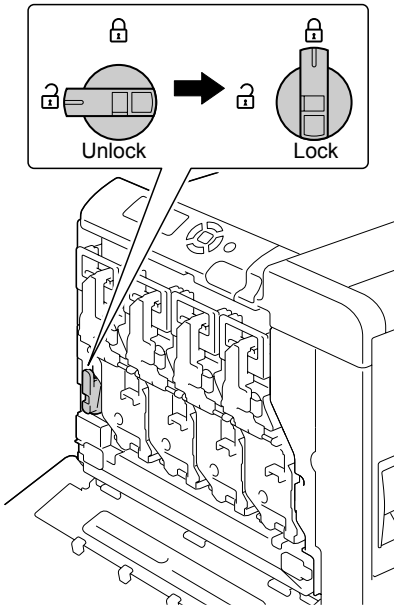
6 Slide the waste toner bottle all the way into the printer.



7 Turn the dial clockwise until the waste toner bottle is in the locked position.



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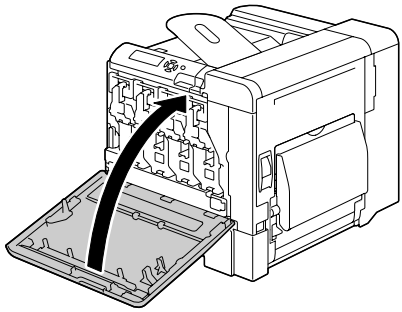
8 Close the front cover.

If the waste toner bottle is not fully inserted or if the dial is not locked, the front cover cannot be closed.



Replacing the Transfer Roller

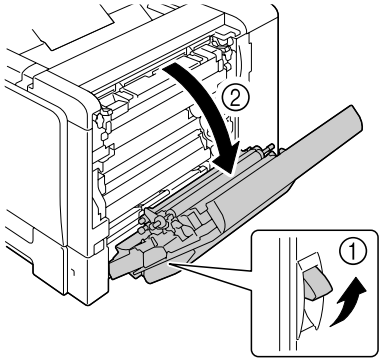
When the time to replace the transfer roller is reached, the message `TRANS.ROLLER/END OF LIFE` appears. Printing can continue even after this message appears; however, since the print quality is reduced, the transfer roller should be replaced immediately.

When replacing the transfer roller, also replace the ozone filter. A new ozone filter is included with the new transfer roller.

Replacing the Transfer Roller

1 Pull the lever, and then open the right side cover.

Before opening the right side cover, fold up Tray 1.



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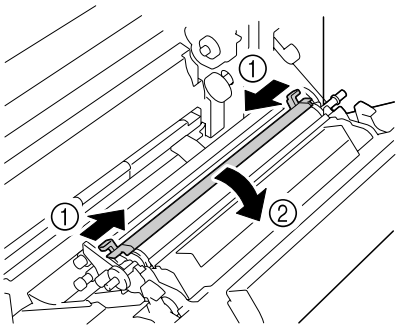
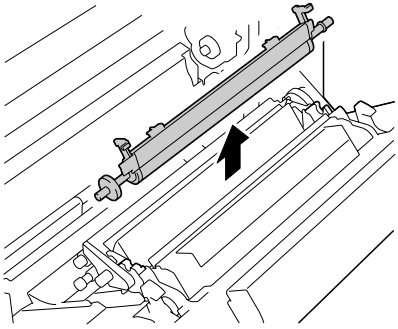
2 While pushing the levers to the inside, move the roller presser toward you.

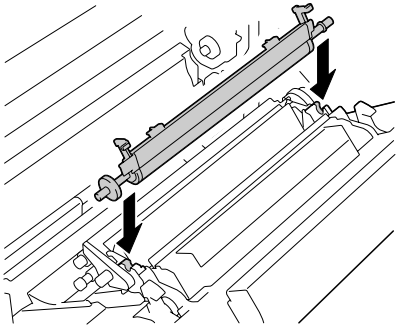


3 While continuing to press the levers, remove the transfer roller.



4 Prepare a new transfer roller.

5 While pressing the levers, insert the shaft of the transfer roller into the bearings.



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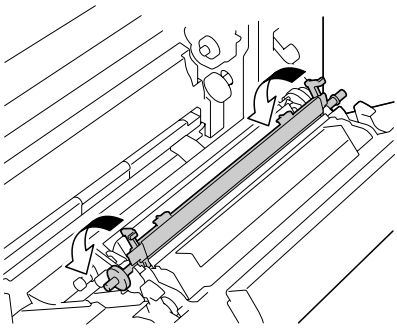
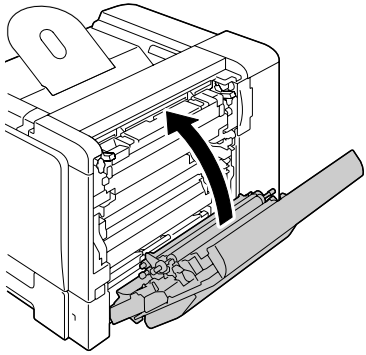
6 Move the levers away from you until it snaps into place.



7 Close the right side cover.



8 Reset the counter in the `MAINTENANCE MENU/SUPPLIES/REPLACE/TRANS. ROLLER` menu.

9 Replace the ozone filter, follow the procedure from next page.

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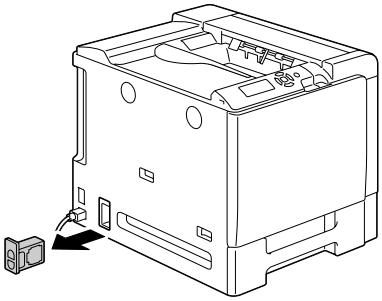
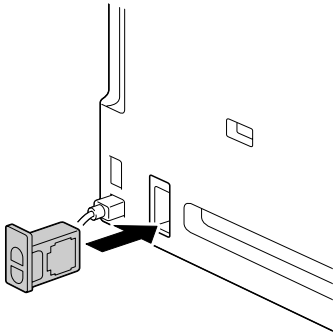
Replacing the Ozone Filter

1 Remove the ozone filter from the printer.



2 Slide the new ozone filter into the printer until it snaps into the place.



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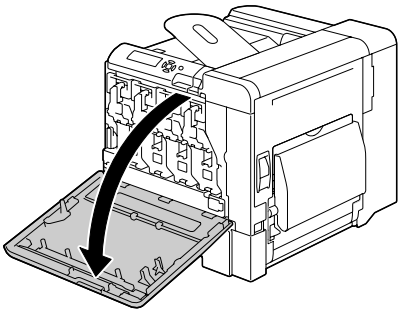
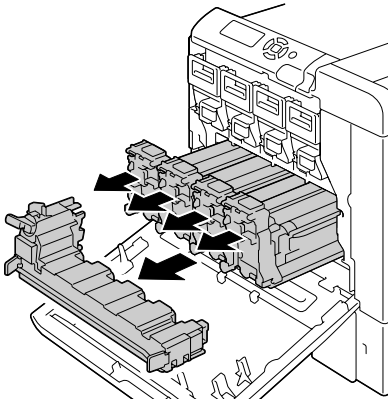
Replacing the Transfer Belt Unit

When the time to replace the transfer belt unit is reached, the message `TRANS. BELT/END OF LIFE` appears. Printing can continue even after this message appears; however, since the print quality is reduced, the transfer belt unit should be replaced immediately.

1 Open the printer's front cover.



2 Remove the print unit and waste toner bottle.



For details on removing the print unit or waste toner bottle, refer to "Replacing a Print Unit" on page 144 or "Replacing the Waste Toner Bottle" on page 150.

Cover the removed print unit to protect it from direct sunlight.

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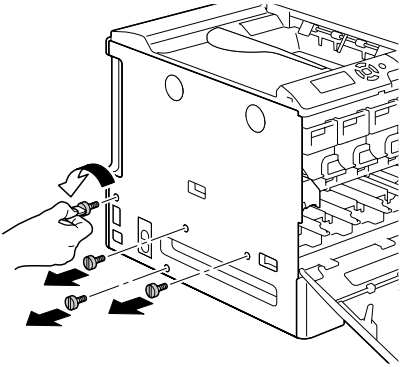
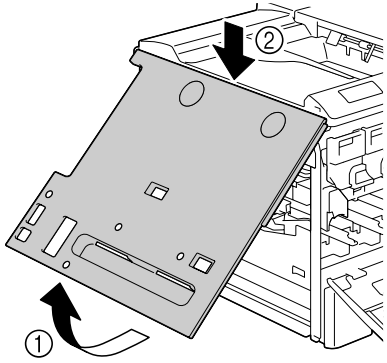
3 Using a coin, remove the four screws on the left side.

Be careful not to lose the screws.

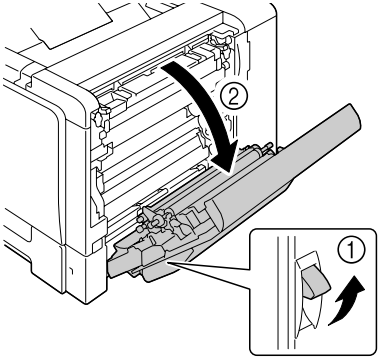


4 Remove the left-side cover.



5 Pull the lever, and then open the right side cover.

Before opening the right side cover, fold up Tray 1.



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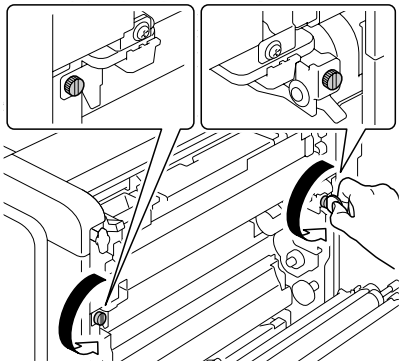
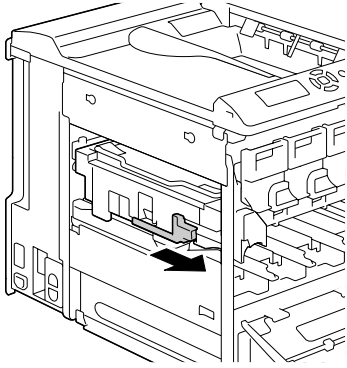
6 Open the right side cover, and then use a coin to loosen the screws securing the transfer belt unit.

Before opening the right side cover, fold up Tray 1.

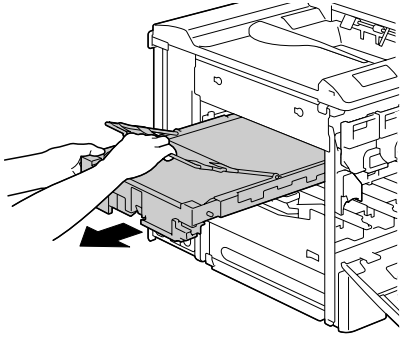


7 On the left side, pull to the right the blue shutter lever for the transfer belt unit.

Do not remove the blue lever.



8 From the side where the left side cover was removed, hold the arm, and then carefully pull out the transfer belt unit.



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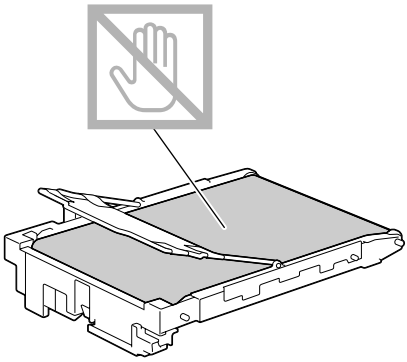
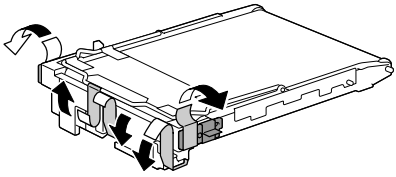
9 Prepare a new transfer belt unit.

Be careful not to touch the surface of the belt.

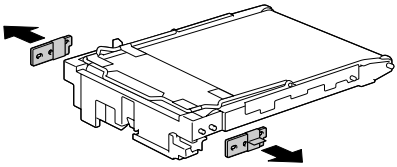
Do not remove the blue lever.



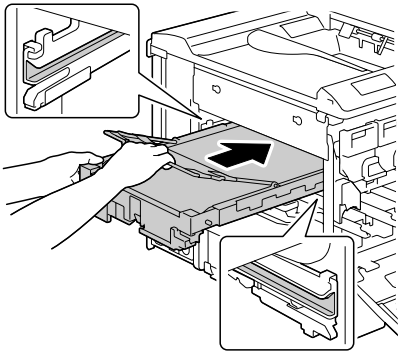
10 Insert the newRemove all packing tape from the transfer belt unit.



11 Remove the protective cover from the transfer belt unit.



12 Insert the new transfer belt unit along the rails.



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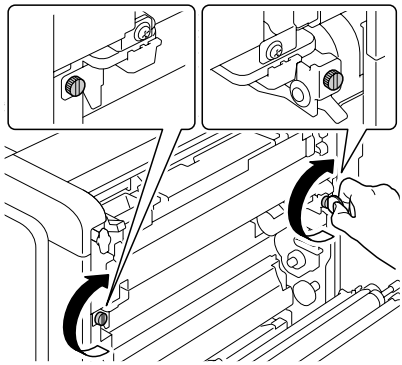
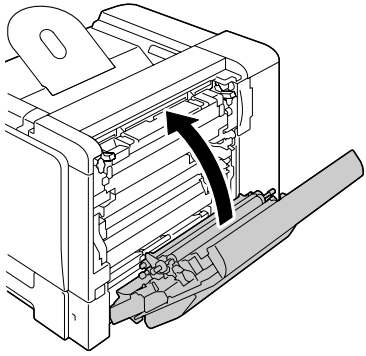
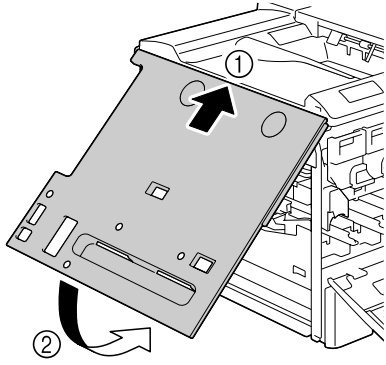
13 From the right side cover side, tighten the screws to secure the transfer belt unit and then close the right side cover.



14 Close the right side cover.



15 Attach the left-side cover.



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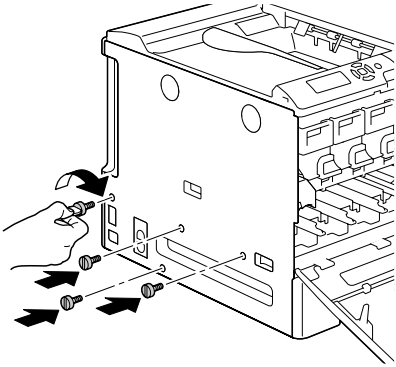
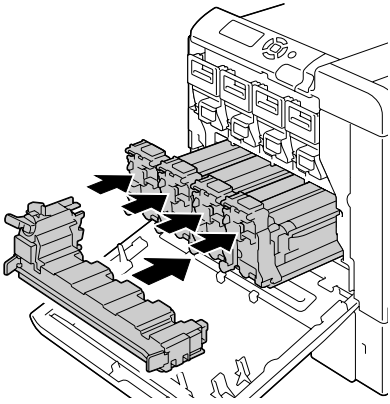
16 Tighten the four screws on the left side.

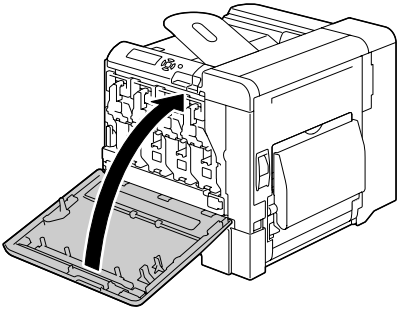


17 Install the print unit and waste toner bottle.

For details on installing the print unit or waste toner bottle, refer to "Replacing a Print Unit" on page 144 or "Replacing the Waste Toner Bottle" on page 150.



18 Close the front cover.



19 Reset the counter in the `MAINTENANCE MENU/SUPPLIES/REPLACE/TRANS. BELT` menu.

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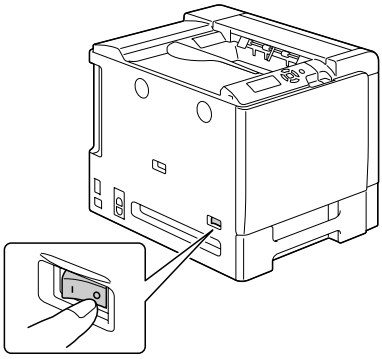
Replacing the Backup Battery

When the backup battery is at its end of life, the printer's date and time cannot be retained. Follow the procedure described below to replace the backup battery.

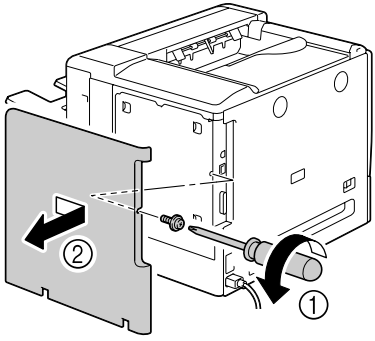
Note

Only use the coin-shaped 3V lithium battery CR2032. It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 232. In addition, always handle circuit boards by the edges only.

1 Turn off the printer and disconnect the power cord and interface cables.



2 Using a screwdriver, remove the screw. Then, slide the rear cover to the right and remove it.



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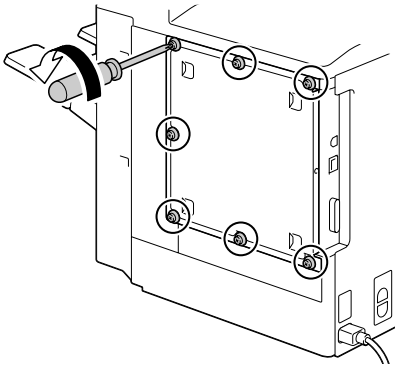
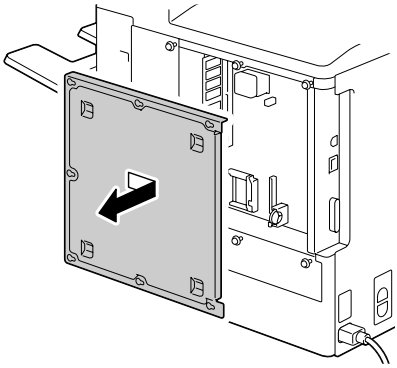
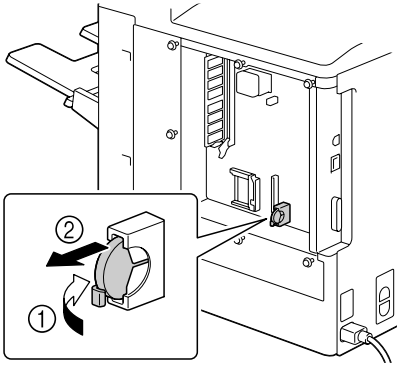
3 Using a screwdriver, loosen the seven screws. (Do not remove them from the printer.)



4 Slide the panel slightly to the right and lift it off the printer.



5 Remove the hook, and then remove the backup battery.



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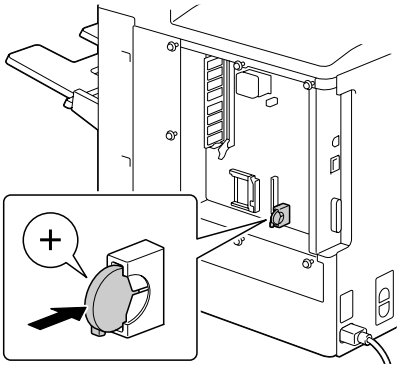
6 Insert a new backup battery.

When inserting the new backup battery, be sure that the + side faces toward the left.



Note

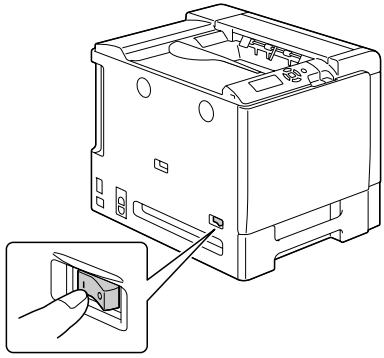
Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to your local regulations. Do not burn the backup battery.

7 Reinstall the panel and tighten the seven screws.

8 Attach the rear cover.

9 Reconnect all interface cables.

10 Reconnect the power cord, and turn on the printer.



11 Use DATE on the SYS DEFAULT MENU/CLOCK menu to set the date, and use TIME on the SYS DEFAULT MENU/CLOCK menu to set the time.

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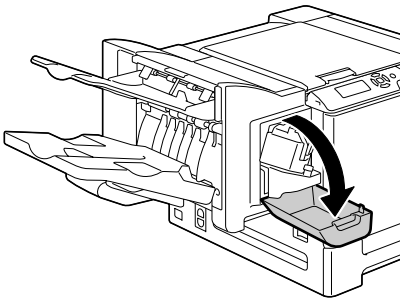
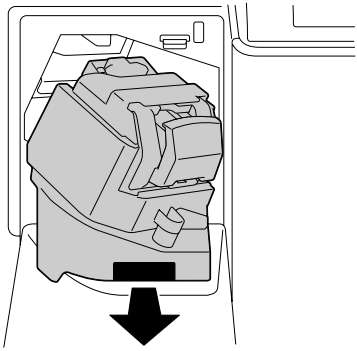
Replacing the Staple

When there are no more staples, the message STAPLER EMPTY appears. Replace the staple cartridge.

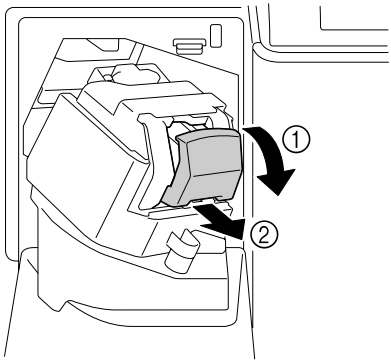
1 Open the stapler cover.



2 Pull out the stapling unit.



3 Pull out the stapler.



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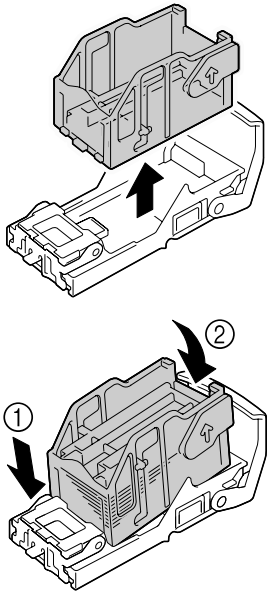
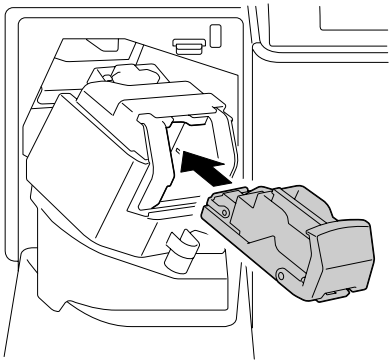
4 Remove the empty cartridge, and then insert the new one.



5 Install the stapler.



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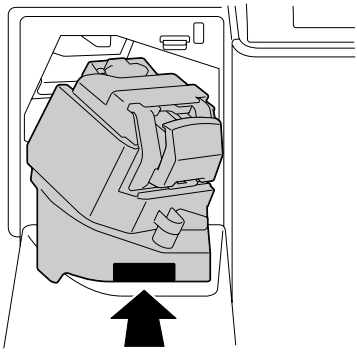
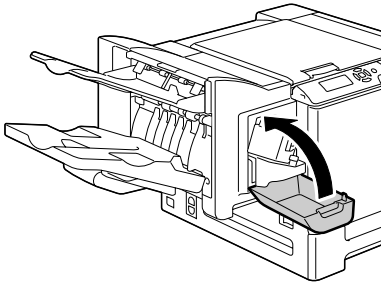
6 Install the stapling unit.



7 Close the stapler cover.



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9 Maintaining the Printer

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Maintaining the Printer

CAUTION

Read all caution and warning labels carefully, make sure to follow any instructions contained in them. These labels are located on the inside of the printer's covers and the interior of the printer body.

Handle the printer with care to preserve its life. Abuse handling may cause damage and void your warranty. If dust and paper scraps remain on the inside or outside of the printer, printer performance and print quality will suffer, so the printer should be cleaned periodically. Keep the following guidelines in mind.

WARNING!

Turn off the printer, unplug the power cord, and disconnect all interface cables before cleaning. Do not spill water or detergent into the printer; otherwise the printer will be damaged and an electric shock may occur.

CAUTION

The fuser unit is hot. When the right side cover is opened, the fuser unit temperature drops gradually (one hour wait time).

- Be careful when cleaning the inside of the printer or removing media misfeeds, as the fuser unit and other internal parts may be very hot.
- Do not place anything on top of the printer.
- Use a soft cloth to clean the printer.
- Never spray cleaning solutions directly on the printer's surface; the spray could penetrate through the air vents of the printer and damage the internal circuits.
- Avoid using abrasive or corrosive solutions or solutions that contain solvents (such as alcohol and benzene) to clean the printer.
- Always test any cleaning solution (such as mild detergent) on a small inconspicuous area of your printer to check the solution's performance.
- Never use sharp or rough implements, such as wire or plastic cleaning pads.
- Always close the printer's covers gently. Never subject the printer to vibration.
- Do not cover the printer immediately after using it. Turn it off and wait until it cools down.

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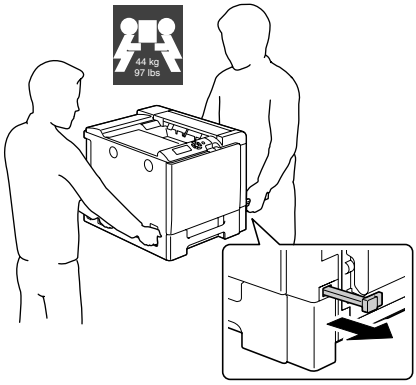
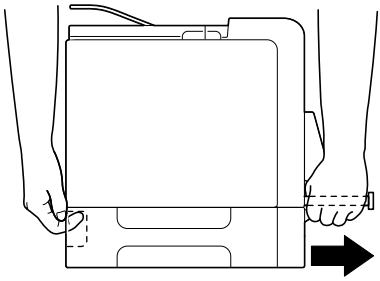
- Do not leave the printer's covers open for any length of time, especially in well-lit places; light may damage the toner cartridges.
- Do not open the printer during printing.
- Do not tap media stacks on the printer.
- Do not lubricate or disassemble the printer.
- Do not tilt the printer.
- Do not touch the electrical contacts, gears, or laser devices. Doing so may damage the printer and cause the print quality to deteriorate.
- Keep media in the output tray at a minimum level. If the media is stocked too high, your printer may experience media misfeeds and excessive media curl.
- Make sure two people are available to lift the printer when moving it.
  Keep the printer level to avoid toner spillage.

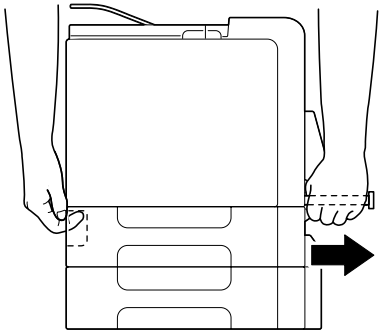


- When lifting the printer, fold up Tray 1, and then lift the printer as shown in the illustration at the right.

  Even if an optional lower feeder unit is installed, be sure to lift the printer as shown below. Do not grasp the grip of Tray 3, Tray 4 or the right side cover; otherwise, the lower feeder unit may be damaged.

Front





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- If you get toner on your skin, wash it off with cool water and a mild soap.

CAUTION

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor.

- Make sure any parts removed during cleaning are replaced before you plug in the printer.

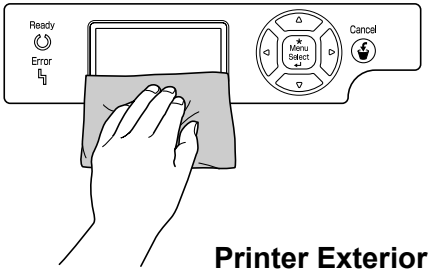
Cleaning the Printer

CAUTION

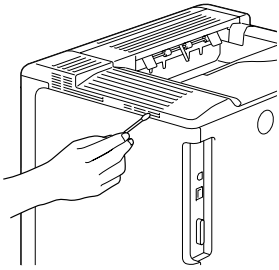
Be sure to turn off the printer and unplug the power cord before cleaning.

Exterior

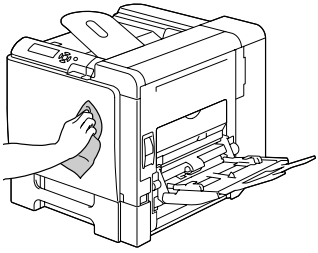
Control Panel



Ventilation Grill



Printer Exterior



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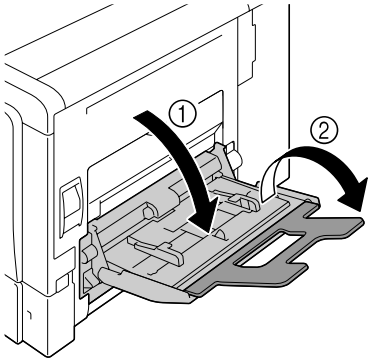
Media Rollers

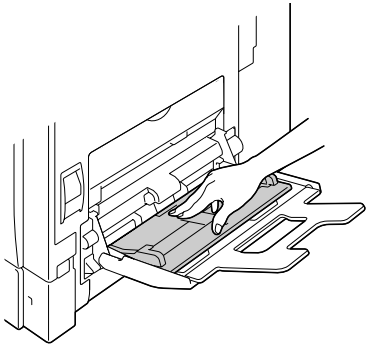
The accumulation of paper dust and other debris on the media rollers can cause media-feeding problems.

Cleaning the Media Feed Rollers (Manual Feed Tray)

1 Open Tray 1.



2 Press down on the center of the paper-lifting plate until the left and right locking tabs (white) lock into place.



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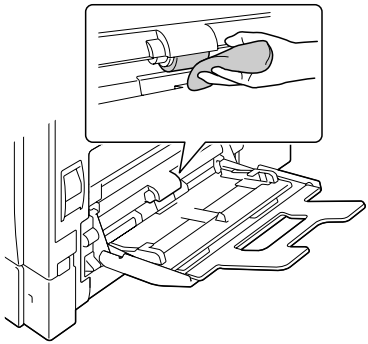
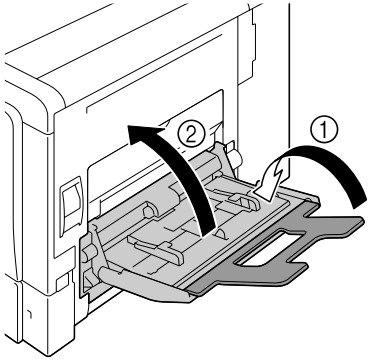
3 Clean the media feed rollers by wiping them with a soft, dry cloth.



4 Close the tray.



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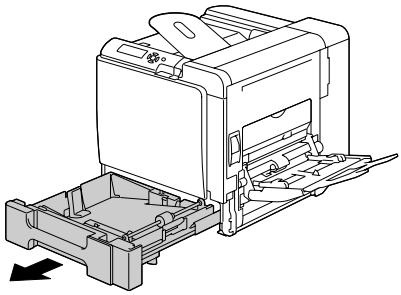
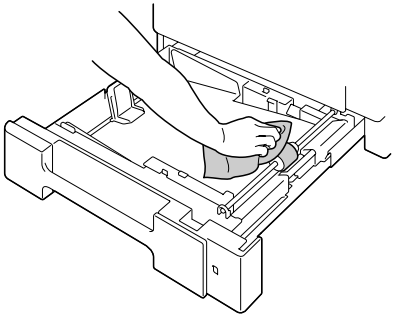
Cleaning the Media Feed Rollers (Tray 2/3/4)

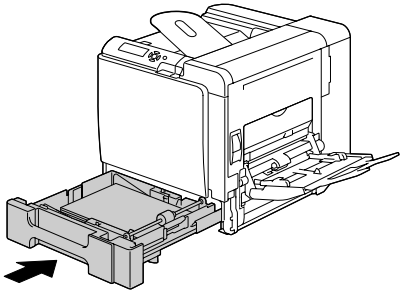
1 Pull out the tray.



2 Clean the media feed rollers by wiping them with a soft, dry cloth.



3 Close the tray.



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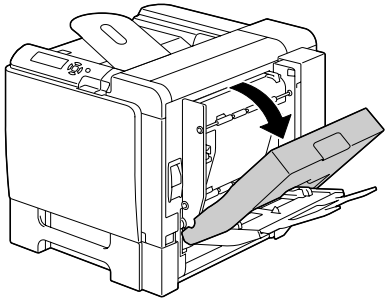
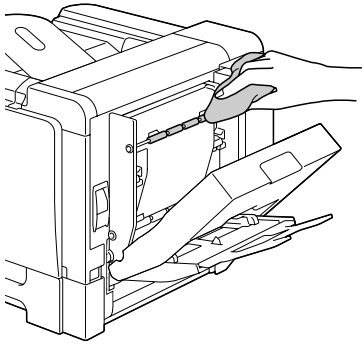
Cleaning the Duplex Option Feed Rollers

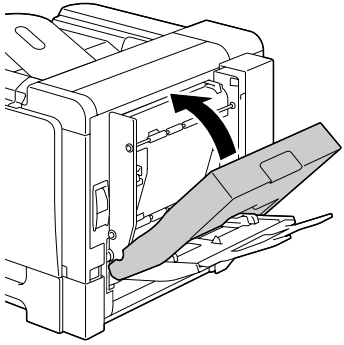
1 Open the duplex cover.



2 Clean the feed rollers by wiping them with a soft, dry cloth.



3 Close the duplex cover.



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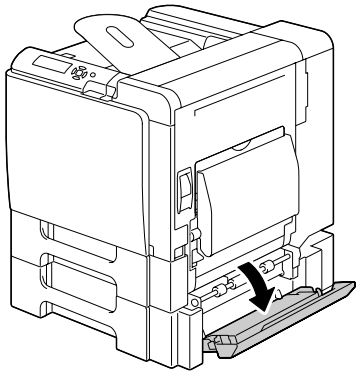
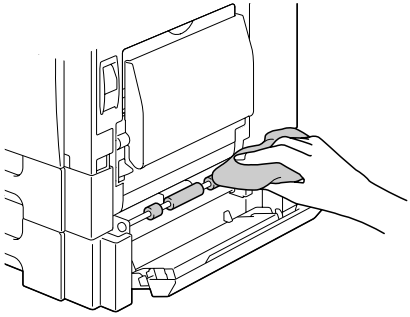
Cleaning the Media Transfer Rollers for Tray 3 and 4

1 Open the right side cover of Tray 3 (Tray 4).

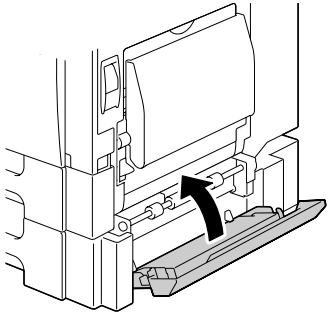
Before opening the right side cover of Tray 3 (Tray 4), fold up Tray 1.



2 Clean the media transfer rollers by wiping them with a soft, dry cloth.



3 Close the right side cover of Tray 3 (Tray 4).



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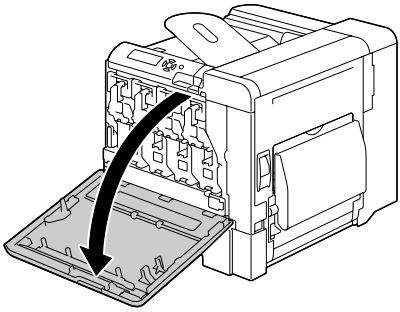
Cleaning the Laser Lens

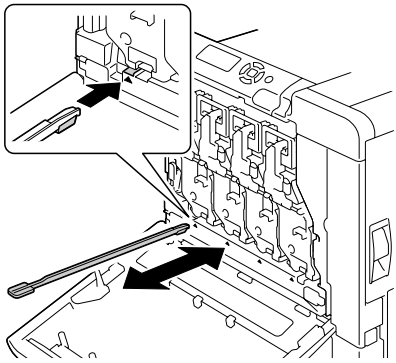
This printer is constructed with four laser lenses. Clean all lenses as described below. The laser lens cleaning tool should be attached to the inside of the front cover.

1 Open the printer's front cover and remove the cleaning tool from the machine's front cover.



2 Insert the laser lens cleaning tool into the laser lens cleaning opening, pull it out, and then repeat this back and forth movement 2 or 3 times.

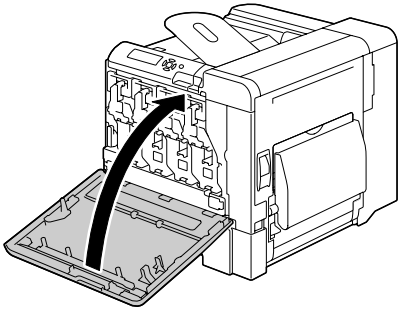
3 Clean between each of the laser lenses in the same way.



The laser lens cleaning tool is included with the printer. Safely store the laser lens cleaning tool so that it will not be lost.

4 Return the laser lens cleaning tool to its holder on the inside of the front cover.

5 Close the front cover.



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10 Troubleshooting

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Introduction

This chapter provides information to aid you in resolving printer problems you may encounter, or at least guide you to the proper sources for help.

Printing the configuration page	Page 180
Preventing media misfeeds	Page 181
Understanding the media path	Page 182
Clearing media misfeeds	Page 183
Solving problems with media misfeeds	Page 203
Solving other problems	Page 206
Solving problems with printing quality	Page 213
Status, error, and service messages	Page 219

Printing a Configuration Page

Print a configuration page to verify the printer is printing correctly, or to check the printer configuration.

Press Key (once)	Until Display Reads
	READY
* Menu Select ↵	PRINT MENU If the hard disk kit is installed, the PROOF/PRINT MENU appears at the top of the menu. Press the ▽ key to select the PRINT MENU.
* Menu Select ↵	CONFIGRATION PG
* Menu Select ↵	PRINT
* Menu Select ↵	The configuration page prints and the printer goes back to READY.

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Preventing Media Misfeeds

Make sure that...
Media matches the printer specifications.
Media is flat, especially on the leading edge.
The printer is on a hard, flat, level surface.
You store media in a dry location away from moisture and humidity.
You remove transparencies from the output tray immediately after printing to avoid static buildup.
You always adjust the media guides in the tray *after* inserting the media *(a guide that is not properly adjusted can cause poor print quality, media misfeeds, and printer damage).*
You load the media printing-side up in the tray *(many manufacturers place an arrow on the end of the wrapper to indicate the printing side).*

Avoid...
Media that is folded, wrinkled, or excessively curled.
Double feeding *(remove the media and fan the sheets—they may be sticking together).*
Fanning transparencies since this causes static.
Loading more than one type/size/weight of media in a tray at the same time.
Overfilling the trays.
Allowing the output tray to overfill *(the output tray has a 250-sheet capacity—misfeeding may occur if you allow more than 250 sheets of media to accumulate at one time).*
Allowing the output tray to fill with more than a few transparencies.

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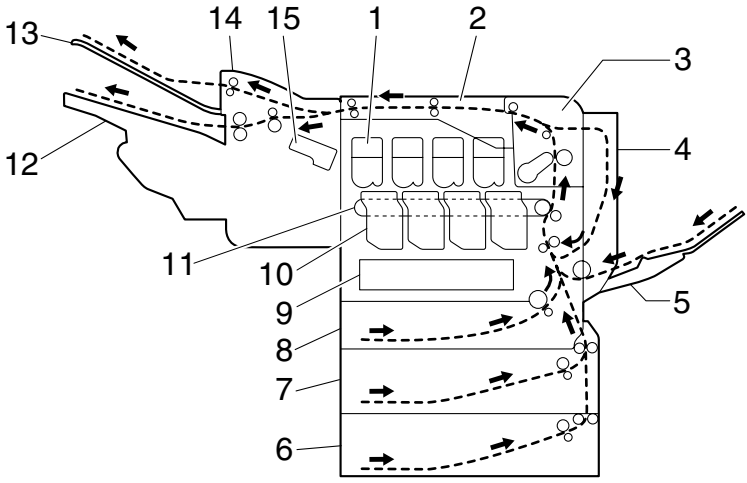
Understanding the Media Path

Understanding the printer's media path will help you locate media misfeeds



1 Toner cartridge
2 Relay unit
3 Fuser unit
4 Duplex option
5 Tray 1 (Manual feed tray)
6 Tray 4 (optional)
7 Tray 3 (optional)
8 Tray 2
9 Laser
10 Print unit
11 Transfer belt unit
12 Main output tray
13 Sub output tray
14 Staple Finisher (optional)
15 Staple

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Clearing Media Misfeeds

To avoid damage, always remove misfed media gently, without tearing it. Any piece of media left in the printer, whether large or small, can obstruct the media path and cause further misfeeds. Do not reload media that has misfed.

Note

The image is not fixed on the media before the fusing process. If you touch the printed surface, the toner may stick to your hands, so be careful not to touch the printed face when removing the misfed media. Make sure not to spill any toner inside the printer.

⚠ CAUTION

Unfused toner can dirty your hands, clothes, or anything else it gets on. If you accidentally get toner on your clothes, lightly dust them off as best as you can. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off. If toner gets on your skin, wash it off with cool water and a mild soap.

⚠ CAUTION

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor.

If, after clearing the media misfeed, the misfeed message in the control panel window persists, open and close the printer's covers. This should clear the misfeed message.

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Media Misfeed Messages and Clearing Procedures

Media Misfeed Message	Page Reference
PAPER JAM TRAY 2	Page 185
PAPER JAM TRAY 3	Page 189
PAPER JAM TRAY 4	Page 189
PAPER JAM DUPLEX 1	Page 191
PAPER JAM DUPLEX 2	Page 191
PAPER JAM FUSER/EXIT	Page 192
PAPER JAM TRAY 1	Page 195
PAPER JAM SECOND TRANS	Page 195
PAPER JAM VERTICAL TRANS	Page 189, Page 195
PAPER JAM UPPER TRANS	Page 197
PAPER JAM FINISHER	Page 198
PAPER JAM SUB EXIT	Page 199
PAPER JAM MAIN EXIT	Page 200
PAPER JAM STAPLER	Page 201

If the message PAPER JAM/VERTICAL TRANS appears, check for media misfeeds in the transfer roller section of the right side covers for Tray 3 and/or Tray 4.

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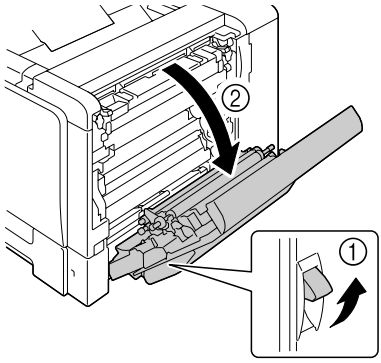
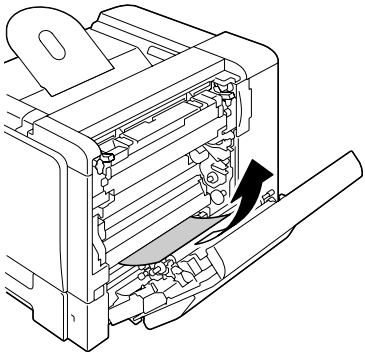
Clearing a Media Misfeed in Tray 2

1 Pull the lever, and then open the right side cover.

Before opening the right side cover, fold up Tray 1.



2 Carefully pull out the misfed media.



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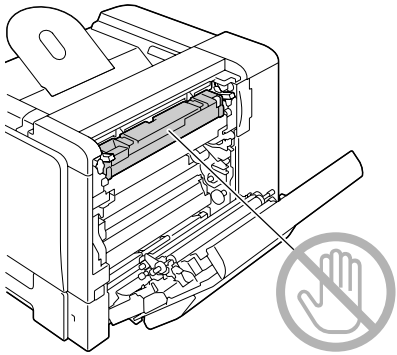
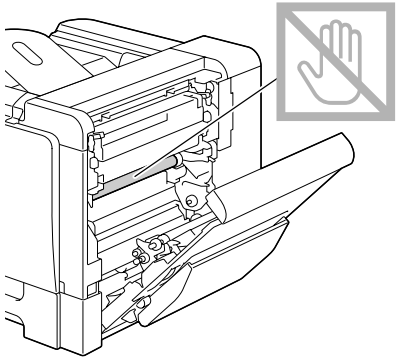
CAUTION

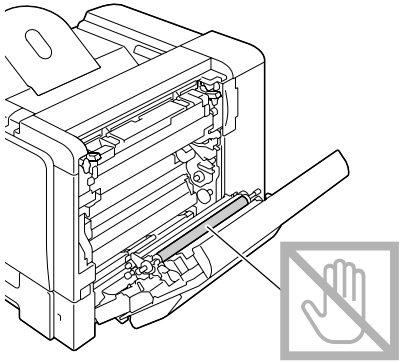
The area around the fuser unit is extremely hot.
Touching anything other than the indicated levers and dials may result in burns. If you get burned, immediately cool the skin under cold water, and then seek professional medical attention.



Note

Decreased print quality may result if the surface of the image transfer belt or the transfer roller is touched.
Be careful not to touch the surface of the image transfer belt or transfer roller.





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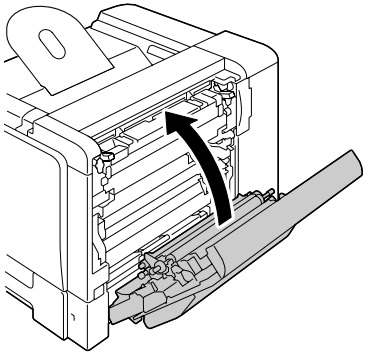
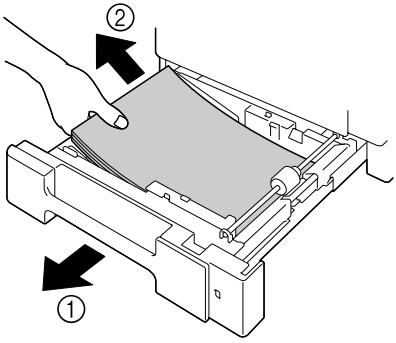
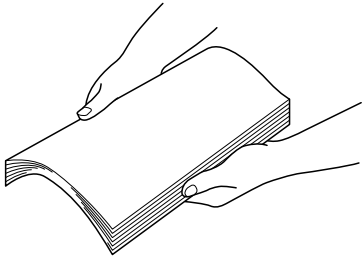
3 Close the right side cover.



4 Pull out Tray 2, and then remove all media from the tray.



5 Fan the media you removed and then align it well.



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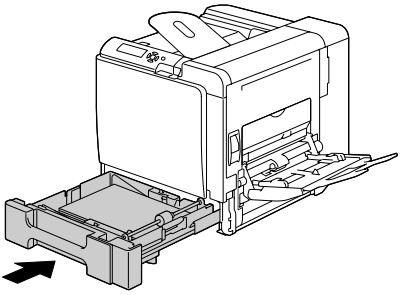
6 Load the media face up in Tray 2.

Make sure that the media is flat.

Do not load paper above the ▼mark.

7 Close Tray 2.



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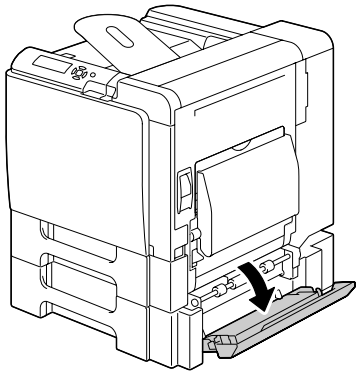
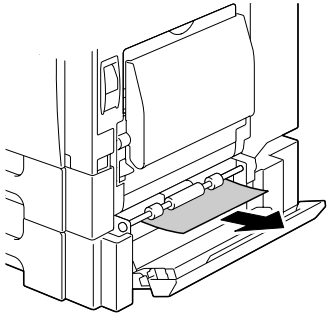
Clearing a Media Misfeed in Tray 3/4

1 Open the right side cover of Tray 3 (Tray 4).

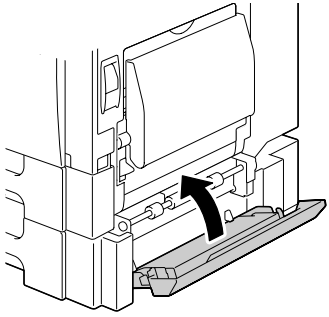
Before opening the right side cover of Tray 3 (Tray 4), fold up Tray 1.



2 Carefully pull out the misfed media.



3 Close the right side cover of Tray 3 (Tray 4).



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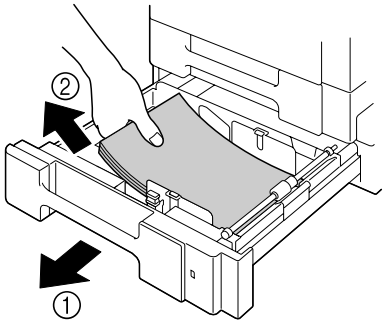
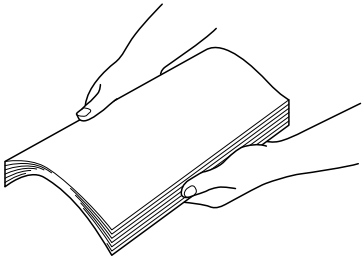
4 Pull out Tray 3 (Tray 4), and then remove all paper from the tray.



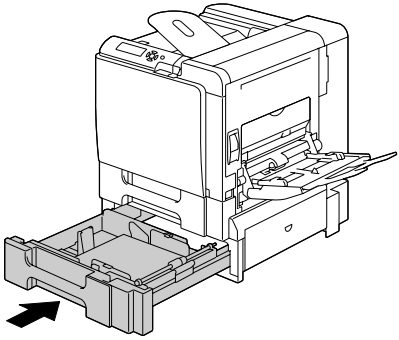
5 Fan the paper you removed and then align it well.



6 Load the paper face up in Tray 3 (Tray 4).

- Make sure that the paper is flat.
- Do not load paper above the ▼ mark.
- Slide the media guides against the edges of the paper.

7 Close Tray 3 (Tray 4).



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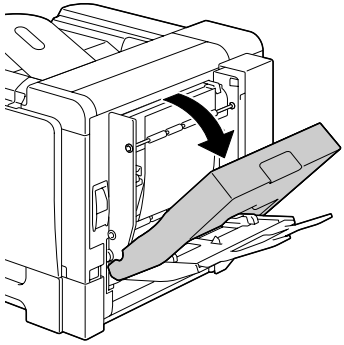
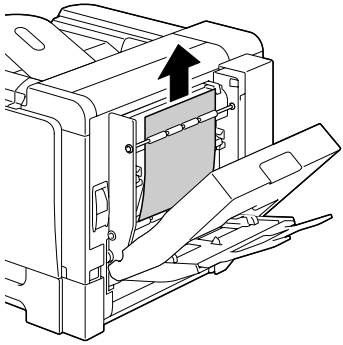
Clearing a Media Misfeed from the Duplex Option

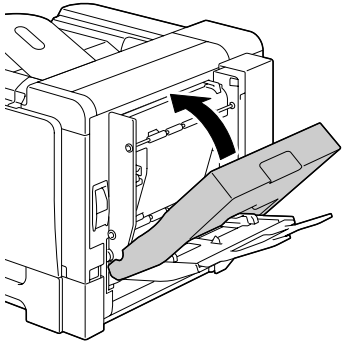
1 Open the duplex cover.



2 Carefully pull out the misfed media.



3 Close the duplex cover.



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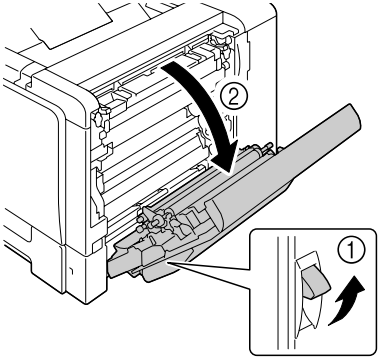
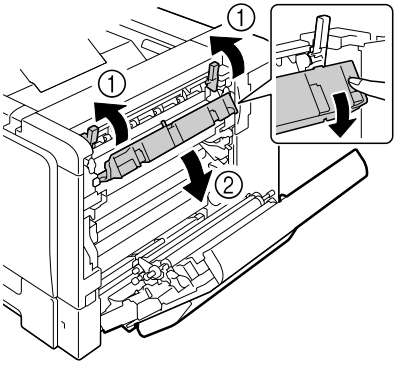
Clearing a Media Misfeed from the Fuser Unit

1 Pull the lever, and then open the right side cover.

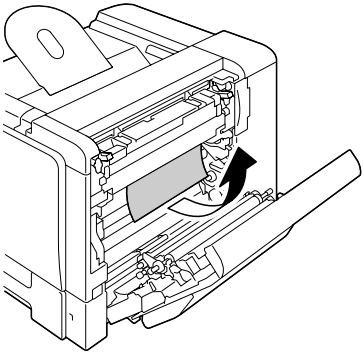
Before opening the right side cover, fold up Tray 1.



2 Push up the levers of the fuser unit cover, and then open the cover.



3 Carefully pull out the misfed media.



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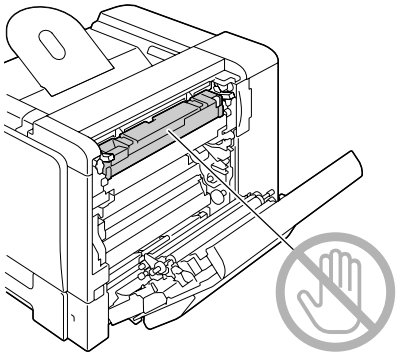
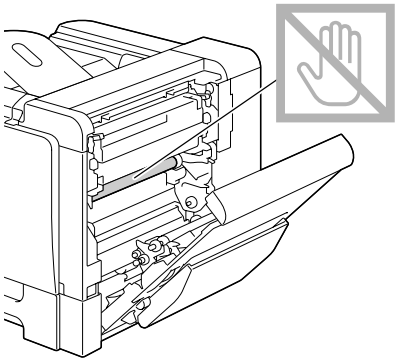
CAUTION

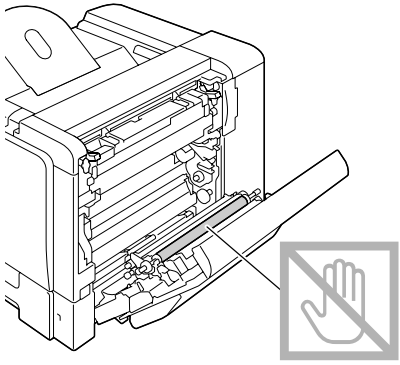
The area around the fuser unit is extremely hot.
Touching anything other than the indicated levers and dials may result in burns. If you get burned, immediately cool the skin under cold water, and then seek professional medical attention.



Note

Decreased print quality may result if the surface of the image transfer belt or the transfer roller is touched.
Be careful not to touch the surface of the image transfer belt or transfer roller.





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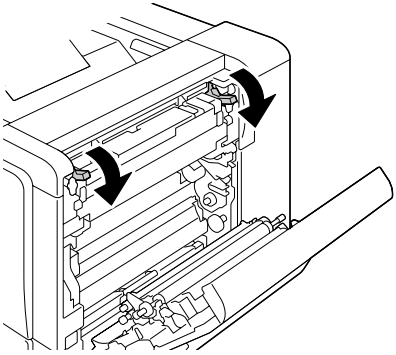
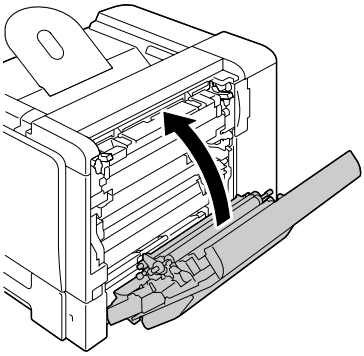
4 Push down the levers.



5 Close the right side cover.



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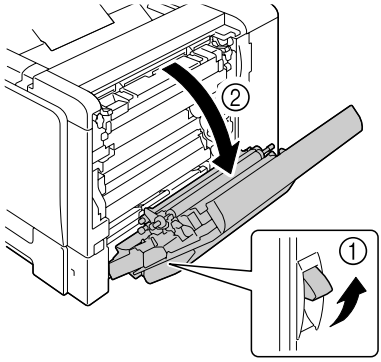
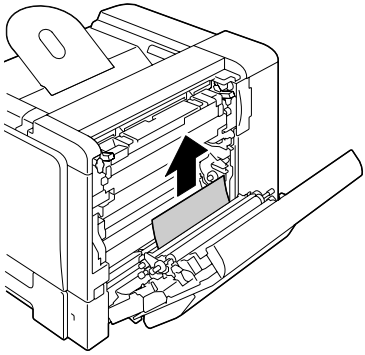
Clearing a Media Misfeed from Tray 1 (Manual Feed Tray) and Transfer Roller

1 Pull the lever, and then open the right side cover.

Before opening the right side cover, fold up Tray 1.



2 Carefully pull out the misfed media.



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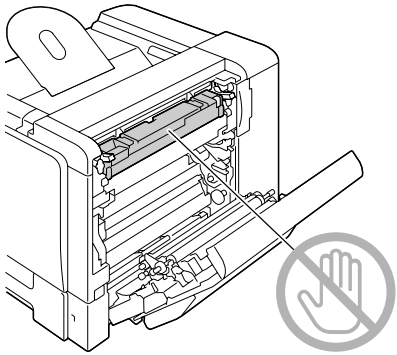
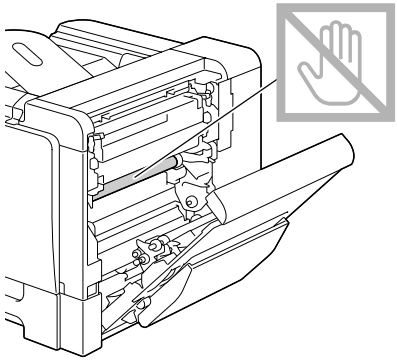
CAUTION

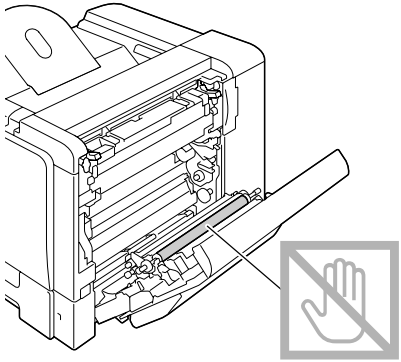
The area around the fuser unit is extremely hot.
Touching anything other than the indicated levers and dials may result in burns. If you get burned, immediately cool the skin under cold water, and then seek professional medical attention.



Note

Decreased print quality may result if the surface of the image transfer belt or the transfer roller is touched.
Be careful not to touch the surface of the image transfer belt or transfer roller.





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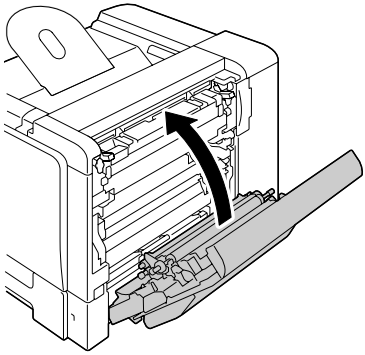
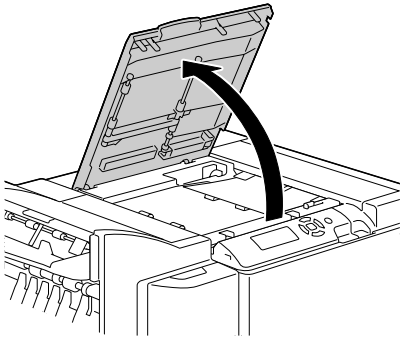
3 Close the right side cover.

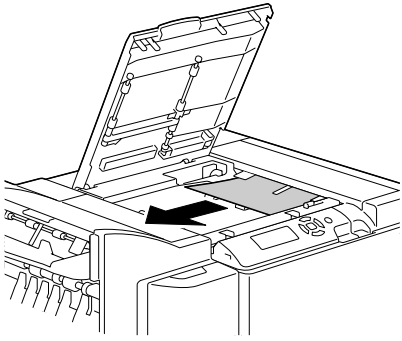


Relay Unit

1 Open the upper cover.



2 Carefully pull out the misfed media.



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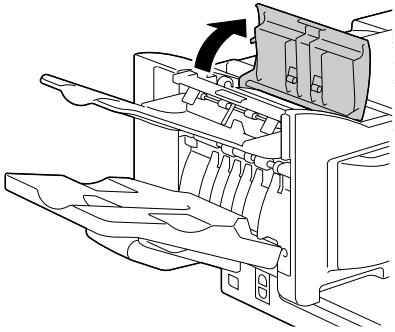
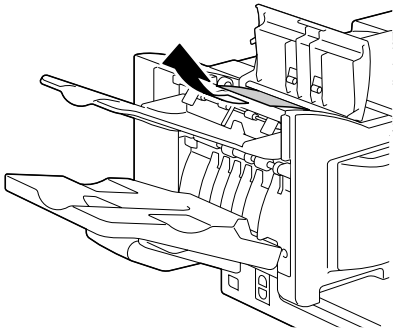
Staple Finisher (Case 1)

If the media misfeed occurred between the relay unit and the top of the staple finisher, follow the procedure described below to remove the misfed media.

1 Open the finisher cover.



2 Carefully pull out the misfed media.



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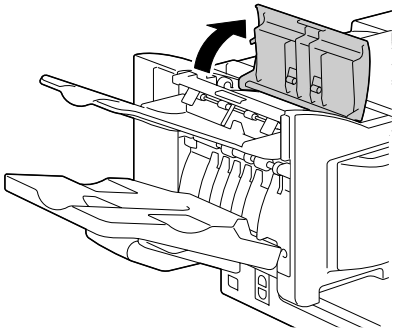
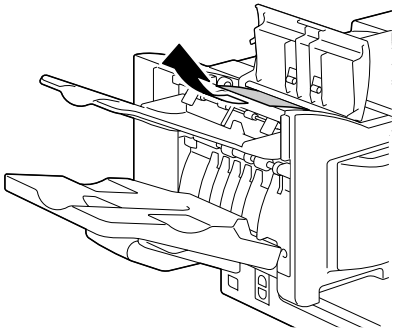
Staple Finisher (Case 2)

If the media can be seen from the sub output tray, follow the procedure described below to remove the misfed media.

1 Open the finisher cover.



2 Carefully pull out the misfed media.



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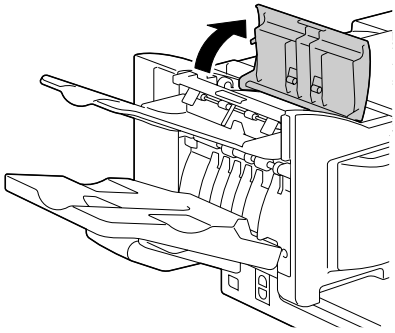
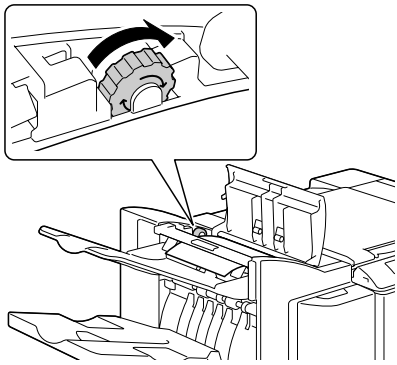
Staple Finisher (Case 3)

If the media misfeed occurred in the center section of the staple finisher, follow the procedure described below to remove the misfed media.

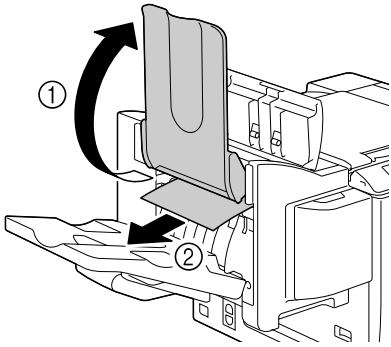
1 Open the finisher cover.



2 Clockwise turn the knob on the inside until the media is fed into the main output tray.



3 When the media is fed into the main output tray, lift up the sub output tray, and then slowly pull out the media.



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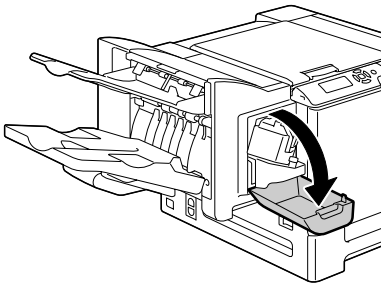
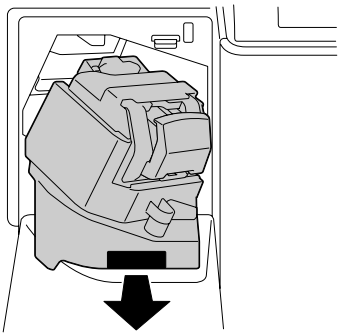
Clearing Jammed Staples

If the staples are jammed, follow the procedure described below to remove the jammed staples.

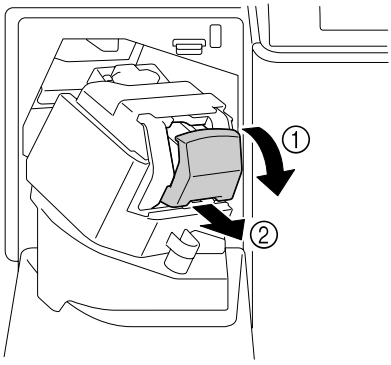
1 Open the stapler cover.



2 Pull out the stapling unit.



3 Pull out the stapler.



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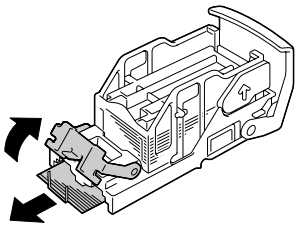
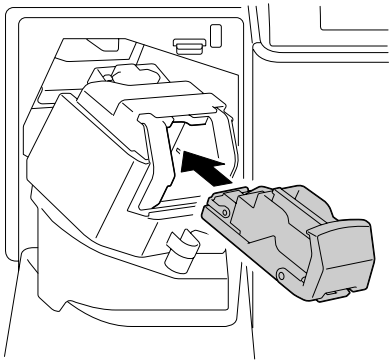
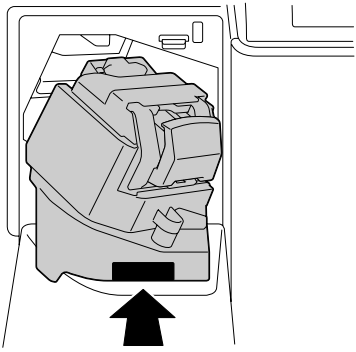
4 Push up the guide for the staple cartridge, and then remove any jammed staples.



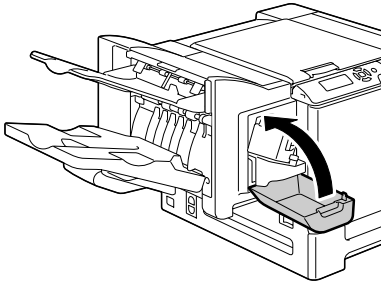
5 Return the guide to its original position, and then install the stapler.



6 Install the stapling unit.



7 Close the stapler cover.



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Solving Problems with Media Misfeeds

Frequent misfeeds in any area indicate that area should be checked, repaired, or cleaned. Repeated misfeeds may also happen if you're using unsupported print media.

Symptom	Cause	Solution
Several sheets go through the printer together.	The front edges of the media are not even.	Remove the media and even up the front edges, then reload it.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Too much static electricity is present.	Do not fan transparencies.
Media misfeed message stays on.	Right side cover needs to be opened and closed again to reset the printer.	Open and close the right side cover of the printer again.
	Some media remains misfed in the printer.	Recheck the media path and make sure that you have removed all of the misfed media.
Duplex option misfeeds.	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA approved media. See "Media Specifications" on page 104.
		Only plain paper, 60–90 g/m^2 (16–24 lb) can be autoduplexed. See "Media Specifications" on page 104.
		Make sure that you have not mixed media types in Tray 1.
		Do not duplex (double-sided) envelopes, labels, thick stock, glossy, or transparencies.
	Media is still being misfed.	Recheck the media path inside the duplex option and make sure that you have removed all of the misfed media.

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Symptom	Cause	Solution
Media is misfeeding.	The media is not correctly positioned in the tray.	Remove the misfed media and reposition the media properly in the tray.
	The number of sheets in the tray exceeds the maximum allowed.	Remove the excess media and reload the correct number of sheets in the tray.
	The media guides are not correctly adjusted to the media size.	Adjust the media guides in the tray to match the size of the media.
	Warped or wrinkled media is loaded in the tray.	Remove the media, smooth it out, and reload it. If it still misfeeds, do not use that media.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Custom-sized media, envelopes, labels, postcards, thick stock, glossy, or transparencies are loaded in Tray 2, 3 or 4.	Special media must be loaded in Tray 1 only.
	The recommended transparency or label sheet is facing the wrong way in Tray 1.	Load the transparencies or label sheets according to the manufacturer's instructions.
	Envelopes are facing the wrong way in Tray 1.	Load the envelopes in Tray 1 so the flaps are facing up.
		If the flaps are on the long edge, load the envelopes with the flaps toward the right of the printer.

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Symptom	Cause	Solution
Media is misfeeding.	Transparencies have collected static electricity in the tray.	Remove the transparencies and load them in the tray one sheet at a time. Do not fan transparencies before loading them.
	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA approved media. See “Media Specifications” on page 104.
	The media roller is dirty.	Clean the media supply roller. For more details, refer to “Media Rollers” on page 173.

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Solving Other Problems

Symptom	Cause	Solution
Printer power is not on.	The power cord is not correctly plugged into the outlet.	Turn off the printer, confirm that the power cord is correctly plugged into the outlet, and then turn on the printer.
	Something is wrong with the outlet connected to the printer.	Plug another electrical appliance into the outlet and see whether it operates properly.
	The power switch is not correctly turned on (I position).	Turn the power switch off (O position), then turn it back to the on (I position).
	The printer is connected to an outlet with a voltage or frequency that does not match the printer specifications.	Use a power source with the specifications listed in appendix A, “Technical Specifications.”
Data was sent to the printer, but it doesn’t print.	An error message is displayed in the message window.	Handle according to the message displayed.
	A job may be cancelled if user authentication or account track settings are specified.	Click the User Authentication/Account Track button in the printer driver, and then type in the necessary information before printing.
The control panel displays `TONER LOW` much sooner than expected.	One of the cartridges may be defective.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
	You printed with heavy toner coverage.	See the specifications in Appendix A.
You can’t print the configuration page.	The tray is empty.	Check that at least Tray 1 is loaded with media, in place, and secure.
	The printer’s covers aren’t closed securely.	Make sure the covers are closed securely. Close all covers gently to avoid jarring the printer. Make sure the waste toner bottle and toner cartridges are installed correctly.
	There is a media misfeed.	Clear the media misfeed.

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Symptom	Cause	Solution
Images cannot be printed from the digital camera.	The digital camera transfer mode is not set to PictBridge. *Printer only supports a PictBridge compliant digital camera.*	Set the digital camera transfer mode to PictBridge.
	CAMERA DIRECT for the printer is set to DISABLE.	Change the setting for INTERFACE MENU/CAMERA DIRECT to ENABLE.
	A public user is not specified for user authentication.	Contact the printer administrator.
Printing from a USB memory device is not possible.	The file format (file extension) is not one that can be printed.	Only files with the format (extension) for JPEG, TIFF or PDF can be printed.
	MEMORY DIRECT for the printer is set to DISABLE.	Change the setting for INTERFACE MENU/MEMORY DIRECT to ENABLE.
	A public user is not specified for user authentication.	Contact the printer administrator.

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Symptom	Cause	Solution
Printing takes too much time.	The printer is set to a slow printing mode (for example, thick stock or transparency).	It takes more time to print on special media. When using regular paper, make sure that the media type is set properly in the driver.
	The printer is set to Energy Saver mode.	It takes time for printing to start in Energy Saver mode. If you do not want to use this mode, disable it. (`SYS DEFAULT MENU/ENERGY SAVER` menu)
	The job is very complex.	Wait. No action needed.
	The printer memory is insufficient.	Add more memory.
	A toner cartridge for a different region or an unapproved genuine toner cartridge is installed (`INCORRECT TONER X` is displayed in the message window).	Install a correct KONICA MINOLTA toner cartridge approved for your specific printer.
Blank pages come out during printing.	One or more of the toner cartridges are defective or empty.	Check the toner cartridges. The image will not print if one or more cartridges are empty.
	The wrong media is being used.	Check that the media type set in the driver matches the media loaded in the printer.

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Symptom	Cause	Solution
Not all pages print.	The printer has the wrong kind of cable, or the printer is not configured for the correct cable and port.	Check your cable.
	The Cancel key was pressed.	Make sure no one pressed the Cancel key while your job was printing.
	The tray is empty.	Check that the trays are loaded with media, in place, and secure.
	A document is printed with an overlay file which has been created by an unsuitable driver.	Print the overlay file using a suitable driver.
Printer resets or turns off frequently.	The power cord is not correctly plugged into the outlet.	Turn off the printer, confirm that the power cord is correctly plugged into the outlet, and then turn on the printer.
	A system error occurred.	Contact Technical Support with the error information.

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Symptom	Cause	Solution
You are experiencing duplex (double-sided) problems.	Media or settings are not correct.	For autoduplexing, make sure that you have a duplex option installed.
		Make sure that you are using correct media. ■ See “Media Specifications” on page 104. ■ Do not duplex (double-sided) envelopes, labels, postcards, thick stock, glossy, or transparencies. ■ Make sure that you have not mixed media types in Tray 1.
		Make sure that your document has more than one page.
		Make sure the duplex option is installed and declared in the Windows printer driver (Properties/Configure tab).
		In the Windows printer driver (Layout/Double-Sided), choose “Double-Sided.”
		For N-up on duplexed pages, choose Collate only in the Windows driver’s Paper Tab. Do not set collation in the application.
With N-up on multiple copies, the output is incorrect.	Both the driver and the application have been set for collation.	For N-up on multiple copies, choose Collate only in the Windows driver’s Paper Tab. Do not set collation in the application.
You hear unusual noises.	The printer is not level.	Place the printer on a flat, hard, level surface.
	The tray is not installed correctly.	Remove the tray that you are printing from and reinsert it completely into the printer.
	There is a foreign object stuck inside the printer.	Turn off the printer and remove the object. If you cannot remove it, contact Technical Support.

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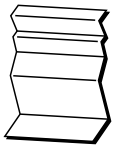
Symptom	Cause	Solution
The web-based utility cannot be accessed.	The PageScope Web Connection Administrator's password is incorrect.	The PageScope Web Connection Administrator password has a 6-character minimum and a 16-character maximum. For details of the PageScope Web Connection administrator password, refer to the Reference Guide on the Utilities and Documentation CD-ROM.
Media is wrinkled. 	The media is moist from humidity or having water spilled on it.	Remove the moist media and replace it with new, dry media.
	The transfer roller or fuser unit is defective.	Check them for damage. If necessary, contact Technical Support with the error information.
	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA approved media. See "Media Specifications" on page 104.
The date and time is not correctly maintained on the printer.	The backup battery has reached the end of its service life.	Replace the backup battery. For details, see "Replacing the Backup Battery" on page 163.
The pages that were fed out were not uniformly loaded and the staples are incorrectly positioned.	There are large curls in the paper.	Remove the paper from the paper tray, turn it over, and then load it again.
	There are gaps between the media guides of the paper tray and the sides of the paper.	Slide the media guides of the paper tray against the sides of the paper so that there are no gaps.
The hard disk was automatically formatted.	The hard disk was full.	When the control panel displays `HDD NEAR FULL`, delete print jobs and resources (fonts, forms, etc.) which were saved on the hard disk using Download Manager or PageScope Web Connection.

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Symptom	Cause	Solution
The CompactFlash card was automatically formatted.	The CompactFlash card was full.	When the control panel displays MEMORY CARD NEAR FULL, delete resources (fonts, forms, etc.) which were saved on the memory card using Download Manager or PageScope Web Connection.

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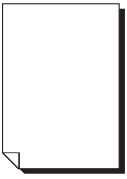
Solving Problems with Printing Quality

Symptom	Cause	Solution
Nothing is printed, or there are blank spots on the printed page. 	One or more of the print units may be defective.	Remove the print units and check it for damage. If it is damaged, replace it.
	The printer driver is not set correctly.	Select the proper setting in the printer driver to switch from transparencies to plain paper.
	The media is moist from humidity.	Adjust the humidity for media storage. Remove the moist media and replace it with new, dry media.
	The media set in the printer driver mismatches the media loaded in the printer.	Load the correct media in the printer.
	The power source does not match the printer specifications.	Use a power source with the proper specifications.
	Several sheets are being fed at the same time.	Remove the media from the tray and check it for static electricity. Fan plain paper or other media (but not transparencies), and replace it in the tray.
	Media is not set properly in the tray(s).	Remove the media, tap it to straighten it out, return it to the tray, and realign the media guides.
Entire sheet is printed in black or color.	One or more of the print units may be defective.	Remove the print units and check it for damage. If it is damaged, replace it.

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Symptom	Cause	Solution
Image is too light; there is low image density.	Laser lens is dirty.	Clean the laser lens.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	There is not much toner left in the cartridge.	Replace the toner cartridge.
	One or more of the print units may be defective.	Remove the print units and check them for damage. If one is damaged, replace it.
	The media type is set incorrectly.	When printing envelopes, labels, postcards, thick stock, glossy, or transparencies, specify the appropriate media type in the printer driver.
Image is too dark.	One or more of the print units may be defective.	Remove the print units and check them for damage. If one is damaged, replace it.
Image is blurred; background is lightly stained; there is insufficient gloss of the printed image.	One or more of the print units may be defective.	Remove the print units and check them for damage. If one is damaged, replace it.

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Symptom	Cause	Solution
The print or color density is uneven. 	One or more of the toner cartridges may be defective or low.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
	The printer is not level.	Place the printer on a flat, hard, level surface.
Irregular print or mottled image appears. 	The media is moist from humidity.	Adjust the humidity in the media storage area. Remove the moist media and replace it with new, dry media.
	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA approved media. See “Media Specifications” on page 104.
	One or more of the print units may be defective.	Remove the print units and check it for damage. If it is damaged, replace it.
There is insufficient fusing or the image comes off when rubbed. 	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use KONICA MINOLTA approved media. See “Media Specifications” on page 104.
	Media type is set incorrectly.	When printing envelopes, labels, postcards, thick stock, glossy, or transparencies, specify the appropriate media type in the printer driver.
	The levers on the fuser unit are set to the position for envelopes.	Before printing on media other than envelopes, be sure to return the levers on the fuser unit to the setting for plain paper.

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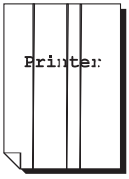
Symptom	Cause	Solution
There are toner smudges or residual images. 	One or more of the print units may be defective or installed incorrectly.	Remove the print units and check them for damage. If one is damaged, replace it.
There are toner smudges on the back side of the page (whether or not it has been duplexed). 	The media transfer roller is dirty.	Clean the media transfer roller.
		If you think the transfer roller should be replaced, contact Technical Support with the error information.
	The media path is dirty with toner.	Print several blank sheets and the excess toner should disappear.
	One or more of the print units may be defective.	Remove the print units and check it for damage. If it is damaged, replace it.
Abnormal areas (white, black, or color) appear in a regular pattern. 	The laser lens is dirty.	Clean the laser lens.
	A print unit may be defective.	Remove the print unit with the color causing the abnormal image. Replace it with a new print unit.

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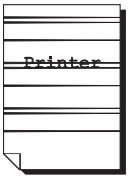
Symptom	Cause	Solution
Image defects. 	The laser lens is dirty.	Clean the laser lens.
	A toner cartridge may be leaking.	Remove the toner cartridges and check them for damage. If one is damaged, replace it.
	A print unit may be defective.	Remove the print unit with the color causing the abnormal image. Replace it with a new print unit.
Lateral lines or bands appear on image. 	The printer is not level.	Place the printer on a flat, hard, level surface.
	The media path is dirty with toner.	Print several sheets and the excess toner should disappear.
	One or more of the print units may be defective.	Remove the print units and check them for damage. If one is damaged, replace it.
Colors look drastically wrong.	One or more of the print units may be defective.	Remove the print units and verify that the toner is distributed evenly on each cartridge roller, and reinstall the print units.
	One or more of the toner cartridges may be low or empty.	Check the control panel for an `TONER LOW` *X* or `TONER OUT` *X* message. If necessary, replace the specified toner cartridge.
Colors are not registering properly; colors are mixed or have page-to-page variation.	The front cover is not properly closed.	Make sure that the printer's front cover is closed.
	One or more of the print units may be defective.	Remove the print units and check them for damage. If one is damaged, replace it.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.

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Symptom	Cause	Solution
The color has a poor reproduction or has poor color density.	One or more of the print units may be defective.	Remove the print units and check them for damage. If one is damaged, replace it.

If the problem is not resolved, even after all of the above have been performed, contact Technical Support with the error information.

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Status, Error, and Service Messages

Status, error, and service messages are displayed in the control panel message window. They provide information about your printer and help you locate many problems. When the condition associated with a displayed message has changed, the message is cleared from the window.

Standard Status Messages

This message...	means...	do this...
CALIBRATING	After replacing a toner cartridge or a print unit, or after rebooting your printer after environmental changes, your printer automatically pauses to do an Auto-Image Density Control (AIDC) cycle. This process is provided to make reliable printer operation with optimum output quality possible.	No action needed.
CANCELLING JOB	The job is being cancelled.	
COPYING	The printer is printing with the collating function.	
ENERGY SAVER	The printer is in Energy Saver mode to reduce power consumption during periods of inactivity. When a print job is received, the printer returns to normal power after warming up.	
FIRMWARE UPDATE	The firmware is being updated.	
INITIALIZING	The printer is being initialized.	
PRINTING	The printer is printing.	
PROCESSING	The printer is processing data.	
READY	The printer is on and ready to receive data.	

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This message...	means...	do this...
REBOOTING	The printer is being restarted.	No action needed.
WARMING UP	The printer is warming up.	
OFFLINE	The printer is offline.	To print on a network, change the TELNET setting so it is online.

Error Messages (Warning: ⚠)

"I-UNIT" in a message refers to the print unit.

This message...	means...	do this...
FUSER UNIT END OF LIFE	The fuser unit has reached the end of its life.	Contact Technical Support with the error information.
HDD NEAR FULL	The hard disk is nearly full.	Delete print jobs or resources (fonts, forms, etc.) which saved on the hard disk.
INCORRECT HDD	Since the hard disk drive was formatted with a different machine, the hard disk drive could not be used.	Replace the hard disk drive with one compatible with this machine, or select HDD FORMAT from SYS DEFAULT MENU and format the hard disk.
INCORRECT MEMORY CARD	Since the CompactFlash card was formatted with a different machine, the CompactFlash card could not be used.	Replace the CompactFlash card with one compatible with this machine, or select CARD FORMAT from SYS DEFAULT MENU and format the CompactFlash card.
INCORRECT I-UNIT *X*	The *X* print unit is an unapproved type.	Install a KONICA MINOLTA print unit of the appropriate type See page 144.

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This message...	means...	do this...
INCORRECT TONER *X*	The *X* toner cartridge is an unapproved type.	Install a KONICA MINOLTA toner cartridge of the appropriate type See page 139.
MEMORY CARD NEAR FULL	The memory card is nearly full.	Delete resources (fonts, forms, etc.) which saved on the memory card by using Download Manager or PSWC.
NON SUPPORT CARD	Since incompatible CompactFlash card was inserted into the memory slot, the CompactFlash card could not be used.	Use CompactFlash card compatible with this printer.
PAPER EMPTY TRAY *X*	Tray *X* (Tray 1, 2, 3 or 4) is empty. (Appears when SYS DEFAULT MENU/ ENABLE WARNING/PAPER EMPTY/TRAY *X* is set to ON.)	Load media into the specified tray.
	Tray *X* (Tray 2, 3 or 4) is not correctly installed. (Appears when SYS DEFAULT MENU/ ENABLE WARNING/PAPER EMPTY/TRAY *X* is set to ON.)	Correctly install the specified tray.
I-UNIT END *X*	The *X* Print unit has reached the end of its life.	Replace the Print unit.

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This message...	means...	do this...
I-UNIT LOW *X*	The *X* print unit is low and should be replaced within 2,000 pages at 5% coverage of letter/A4 pages. (Appears when SYS DEFAULT MENU/ENABLE WARNING/I-UNIT LOW is set to ON.)	Prepare the specified color print unit.
I-UNIT LIFE *X*	The *X* print unit has reached the end of its life.	Replace the print unit.
STAPLER EMPTY	The staple finisher has run out of staples. Otherwise, the staples are almost empty.	Replace the staple cartridge.
TONER OUT *X*	The *X* toner cartridge is empty.	Replace the toner cartridge. Printing does not stop immediately when this message appears. Therefore, if printing is continued, the Operator Call message "TONER OUT" appears, and then printing stops. (Refer to page 227.)
TONER LOW *X*	The *X* toner cartridge is low and should be replaced within 1,200 pages at 5% coverage of letter/A4 pages. (Appears when SYS DEFAULT MENU/ENABLE WARNING/TONER LOW is set to ON.)	Prepare the specified color toner cartridge.

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This message...	means...	do this...
TRANS. BELT END OF LIFE	The transfer belt unit has reached the end of its life.	Replace the transfer belt unit and reset the counter in the MAINTENANCE MENU/SUPPLIES/REPLACE/TRANS. BELT menu.
TRANS.ROLLER END OF LIFE	The transfer roller has reached the end of its life.	Replace the transfer roller and reset the counter in the MAINTENANCE MENU/SUPPLIES/REPLACE/TRANS. ROLLER menu.
UNABLE TO COLLATE JOB	The hard disk is full. Print jobs over 10,000 pages cannot be collated.	Print one copy of the file at a time.
UNABLE TO STAPLE JOB	A job set for stapling contains pages that exceed the number of pages that can be stapled.	Reduce the printed pages to the number that can be stapled. (Refer to page 135.)
WASTE TONER NEAR FULL	The waste toner bottle is nearly full.	Prepare a new waste toner bottle.
HUBS NOT SUPPORTED	A USB hub is connected.	Do not connect a USB hub.
DEVICE NOT SUPPORTED	An incompatible device is connected.	Do not connect an incompatible device.
AUTH TIMEOUT	Log off from IEEE802.1X port authentication automatically.	Set authentication of IEEE802.1 port again, and then log on.
PORT AUTH ACTIVE	IEEE802.1X port is processing.	Please wait until authentication processing is completed.

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Error Messages (Operator Call: ⚠)

This message...	means...	do this...
ADJUST TRAY1	Tray 1 is removed from the printer.	Install Tray 1
COVER OPEN DUPLEX COVER	The duplex cover is open.	Close the duplex cover.
COVER OPEN FINISHER COVER	The finisher cover is open.	Close the finisher cover.
COVER OPEN FRONT COVER	The printer's front cover is open.	Close the front cover.
COVER OPEN SIDE COVER	The printer's right side cover is open.	Close the right side cover.
COVER OPEN STAPLER COVER	The stapler cover is open.	Close the stapler cover.
COVER OPEN TRAY*X* COVER	The right side cover of Tray *X* (Tray 3 or 4) is open.	Close the right side cover of the tray.
COVER OPEN UPPER COVER	The upper cover is open.	Close the upper cover.
FUSER MISSING CHECK UNIT	The fuser unit is not installed.	Contact Technical Support with the error information.
HOLD JOB ERROR UNABLE TO STORE JOB	The specified print job saved on the hard disk is sent while the hard disk is not installed.	Print jobs can be saved only if a hard disk is installed. If desired, install a hard disk.
HOLD JOB ERROR "OPTIONAL" PRESS CANCEL	When printing a stored job, the printer configuration was changed since the job was stored.	Change the printer configuration to that when the job was stored.
MANUAL EMPTY "SIZE" "MEDIA"	Tray 1 was specified with the printer driver as Manual Feed for printing, but Tray 1 is empty.	Load the correct media into Tray 1.

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This message...	means...	do this...
MANUAL FEED "SIZE" "MEDIA"	The Paper Source in the printer driver is set to Tray 1 (Manual Feed), but there is already media in the tray when printing begins.	Press the △ key to print, or remove and reload the media in Tray 1.
MEMORY FULL PRESS CANCEL	The printer has received more data than can be processed with its internal memory.	Press the Cancel key to cancel the print job. Decrease the amount of data to be printed (for example, by decreasing the resolution), and then try printing again. If that doesn't solve the problem, install an optional memory module.
OUTPUT FULL REMOVE PAPER YYYY	The output tray is full of media.	Remove all media from the output tray.
PAPER EMPTY "SIZE" "MEDIA"	The specified tray is empty. (Appears when PAPER MENU/PAPER SOURCE/TRAY CHAINING ON is set.)	Load the correct media into the specified tray.
PAPER ERROR "SIZE" "MEDIA"	The media size/type set in the printer driver is different from the size/type of media loaded (Appears when PAPER MENU/PAPER SOURCE/TRAY CHAINING ON is set.)	Load the correct media size and type.

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This message...	means...	do this...
PAPER JAM DUPLEX1	Media has misfed in the duplex option.	Press the ▽ key to display the help screen. Follow the instructions in the help screen to remove the misfed media.
PAPER JAM DUPLEX2	Media has misfed in the duplex option.	
PAPER JAM FINISHER	Media has misfed in the transport section of the staple finisher.	
PAPER JAM FUSER/EXIT	Media has misfed leaving the fuser area.	
PAPER JAM MAIN EXIT	Media has misfed in the feed section of the main output tray.	
PAPER JAM SECOND TRANS	Media has misfed in the transfer roller area. This type of misfeed means that the media did not make it to the media exit area.	
PAPER JAM STAPLER	Media has misfed in the stapler.	
PAPER JAM SUB EXIT	Media has misfed in the feed section of the sub output tray.	
PAPER JAM TRAY1	Media has misfed in Tray 1.	
PAPER JAM TRAY*X*	Media has misfed while being pulled from the specified tray (Tray 2, 3 or 4).	
PAPER JAM UPPER TRANS	Media has misfed in the relay unit.	
PAPER JAM VERTICAL TRANS	Media has misfed in the vertical transfer area.	

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This message...	means...	do this...
I-UNIT END REPLACE *X*	The *X* Print unit has completely reached the end of its life.	Replace the Print unit.
I-UNIT MISSING CHECK *X*	The *X* print unit is not installed, or an unapproved print unit is installed.	Install a correct KONICA MINOLTA print unit.
STAPLER EMPTY REPLACE STAPLE CARTRIDGE	The staples are empty when an attempt was made to print a staple job.	Replace the staple cartridge.
TONER OUT REPLACE *X*	The *X* toner cartridge is completely empty.	Replace the toner cartridge.
TONER MISSING CHECK *X*	The *X* toner cartridge is not installed, or an unapproved toner cartridge is installed.	Install a correct KONICA MINOLTA toner cartridge.
TRAY *X* EMPTY "SIZE" "MEDIA"	The *X* (Tray 1, 2, 3 or 4) was specified with the printer driver for printing, but Tray *X* is empty. This message appears when the PAPER MENU/ PAPER SOURCE/ TRAY CHAINING menu is set to OFF.	Load the correct media into the specified tray.
TRAY*X* PAPER ERR "SIZE" "MEDIA"	The media size/type set in the printer driver is different from the size/type of media loaded. This message appears when the PAPER MENU/ PAPER SOURCE/ TRAY CHAINING menu is set to OFF.	Load the correct media size and type.

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This message...	means...	do this...
TRAY*X* SIZE ERR ADD "SIZE"	The media size set in the printer driver is different from the size of media loaded.	Load the correct media size into the specified tray.
TRAY*X* TYPE ERR ADD "MEDIA"	The media type set in the printer driver is different from the type of media loaded.	Load the correct media type into the specified tray.
WASTE TONER FULL REPLACE BOTTLE	The waste toner bottle is full.	Install a new waste toner bottle.
CONFIGURATION ERR	The printer configuration was changed when the printer power was on.	Reboot the printer
INCORRECT TONER	The toner cartridge is an unapproved type.	Install a KONICAMINOLTA toner cartridge of the appropriate type See page 139.

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Service Messages:

These messages indicate a more serious error that can only be corrected by a customer service engineer. If one of these messages appears, turn the printer off, then turn it on again. If the problem persists, contact your local vendor or authorized service provider.

This service message...	means...	do this...
SERVICE CALL *XXXX* "Error"	An error has been detected with the item indicated "*XXXX*" in the service message. Information about errors appears at the bottom of the message window.	Reboot the printer. This often clears the service message, and printer operation can resume. If the problem persists, contact Technical Support.

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11 Installing Accessories

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Introduction

Note

Use of accessories not manufactured or supported by KONICA MINOLTA will void your warranty.

This chapter provides information about the following accessories.

Dual In-Line Memory Module (DIMM)	256 MB, 512 MB DIMM (DDR-SDRAM, 266 MHz, 184 pins, No ECC, Unbuffered, CL=2 or 2.5)
Duplex Option	Auto duplexing
Lower Feeder Unit (Tray 3/4)	500-sheet tray included
Hard Disk Kit	40 GB Hard Disk
CompactFlash card	512 MB, 1 GB, 4 GB

Note

Installing accessories always requires that the printer and accessories are turned off and unplugged during installation.

Antistatic Protection

Note

It's very important to protect the printer controller board from electrostatic damage while performing any task involving the controller board.
Turn off all power switches first. If an antistatic wrist strap is provided in your printer option kit, attach one end of it to your wrist and the other end to the bare metal chassis on the back of your printer. Never attach the wrist strap to any piece of equipment with an electrical current present. Plastic, rubber, wood, painted metal surfaces, and telephones are not acceptable grounding points.
If you don't have an antistatic wrist strap, discharge your body's static electric charge by touching a grounded surface before you handle any printer boards or components. Also avoid walking around after grounding yourself.

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Dual In-Line Memory Module (DIMM)

You may need additional memory (DIMM) for complex graphics and for duplex (double-sided) printing.

Dual in-line memory module (or DIMM) is compact circuit board with surface-mount memory chips.

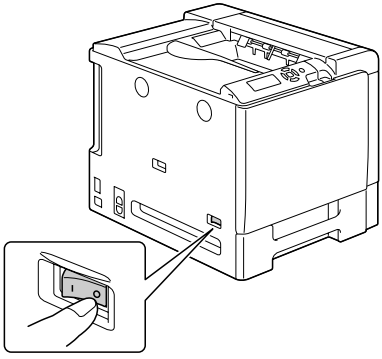
The printer, which has two memory slots, has a 256 MB memory module already installed in one of the slots. By using both slots, the memory can be expanded to a maximum of 1024 MB (512 MB + 512 MB).

Installing a DIMM

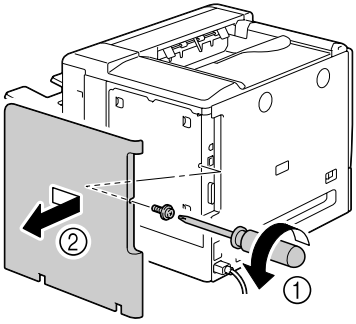
Note

It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 232. In addition, always handle circuit boards by the edges only.

1 Turn off the printer and disconnect the power cord and interface cables.



2 Using a screwdriver, remove the screw. Then, slide the rear cover to the right and remove it.



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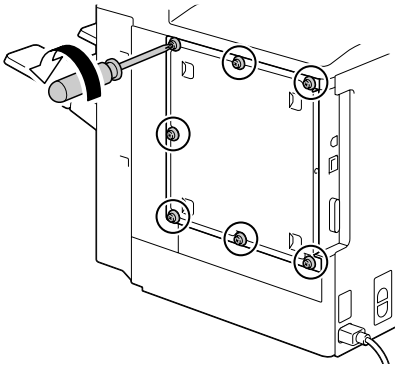
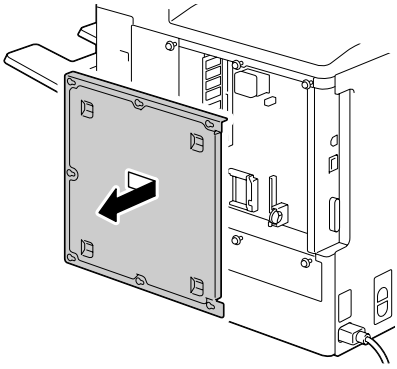
3 Using a screwdriver, loosen the seven screws. (Do not remove them from the printer.)

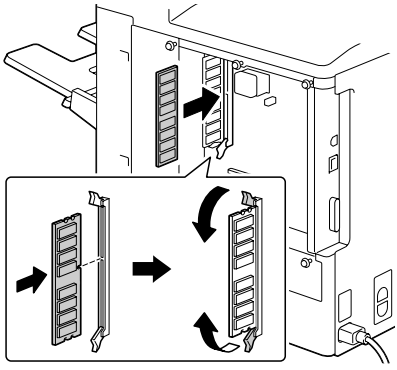


4 Slide the panel slightly to the right and lift it off the printer.



5 Insert the new DIMM straight into the DIMM connector until the latches snap into the locked position.

Observe the keyed side of the DIMM to align it with the connector. If you cannot snap the DIMM into place, do not force it. Reposition it, making sure that the DIMM is seated completely in the connector.



6 Reinstall the panel and tighten the seven screws.

7 Attach the rear cover.

8 Reconnect all interface cables.

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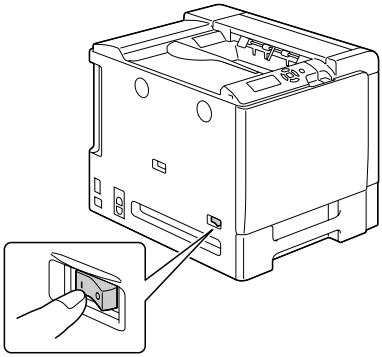
9 Reconnect the power cord, and turn on the printer.



10 Declare the additional Printer Memory in the Windows printer driver (Properties/Configure tab).

11 Print a configuration page (`PRINT MENU/CONFIGURATION PG`) and verify that the total amount of the RAM installed in your printer is listed.

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Hard Disk Kit

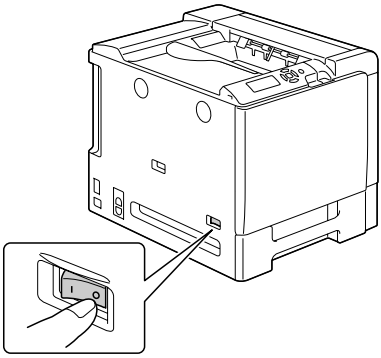
If a hard disk kit is installed, fonts can be downloaded and saved, and the overlay function can be used.

Installing the Hard Disk kit

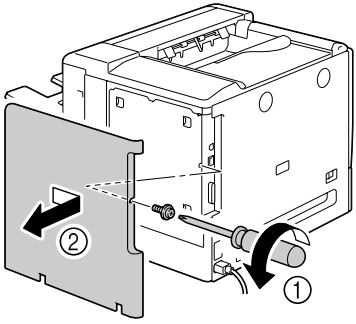
Note

It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 232. In addition, always handle circuit boards by the edges only.

1 Turn off the printer and disconnect the power cord and interface cables.



2 Using a screwdriver, remove the screw. Then, slide the rear cover to the right and remove it.



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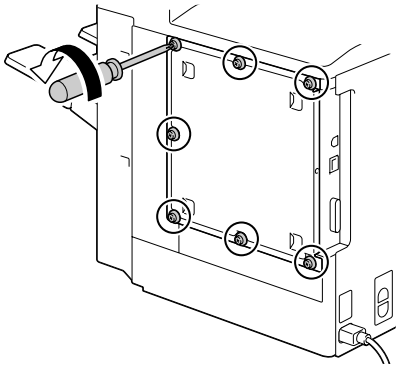
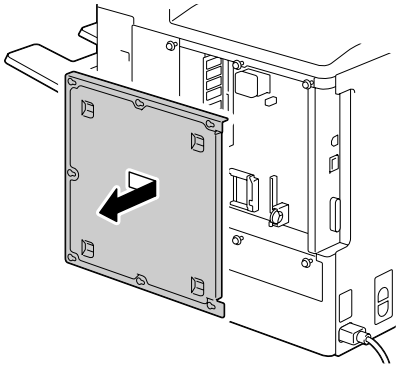
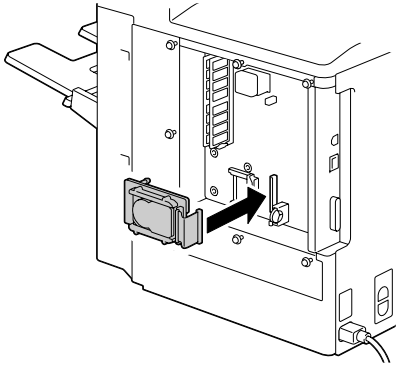
3 Using a screwdriver, loosen the seven screws. (Do not remove them from the printer.)



4 Slide the panel slightly to the right and lift it off the printer.



5 Plug the cable on the hard disk kit into the connector on the controller board.



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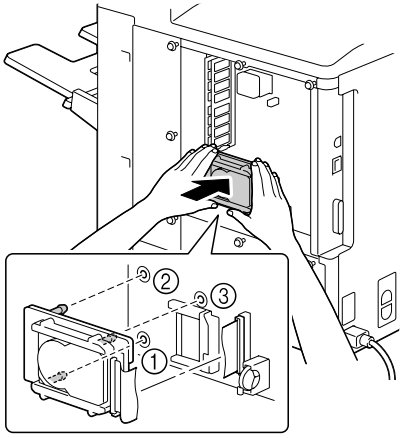
6 Insert the three mounting pins on the hard disk kit into the holes in the controller board to mount the hard disk kit onto the controller board.

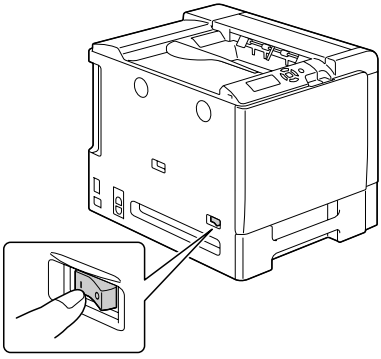


7 Reinstall the panel and tighten the seven screws.

8 Attach the rear cover.

9 Reconnect all interface cables.

10 Reconnect the power cord, and turn on the printer.



11 Declare the Hard Disk in the Windows printer driver (Properties/Configure tab).

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CompactFlash card

If a CompactFlash card is installed, resources such as fonts, macros and profiles can be downloaded, and image files can be printed directly.

Only CompactFlash cards with a capacity of 512 MB, 1 GB or 4 GB can be used.

The Hold Job function is not available with a CompactFlash card. These functions require that an optional hard disk kit be installed.

Installing the CompactFlash card

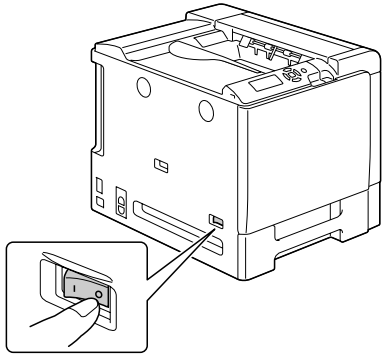
Note

If the installed CompactFlash card was used with a device other than this printer, such as a computer or digital camera, the card is automatically formatted and all of its data is deleted.

Note

It is very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 232. In addition, always handle circuit boards by their edges only.

1 Turn off the printer and disconnect the power cord and interface cables.



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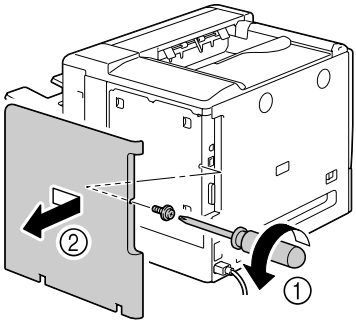
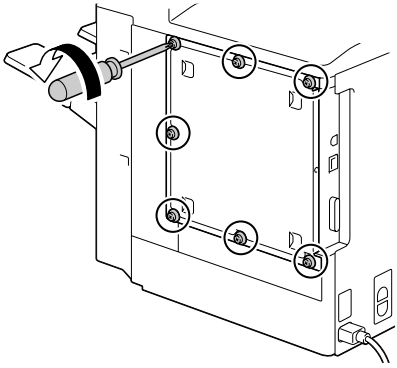
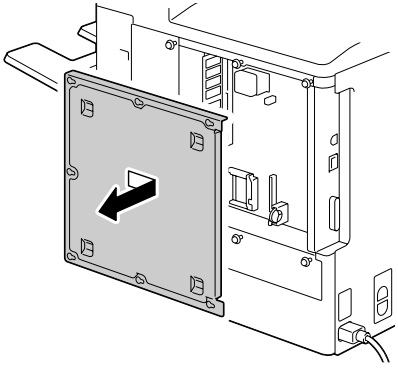
2 Using a screwdriver, remove the screw. Then, slide the rear cover to the right and remove it.



3 Using a screwdriver, loosen the seven screws. (Do not remove them from the printer.)



4 Slide the panel slightly to the right and lift it off the printer.



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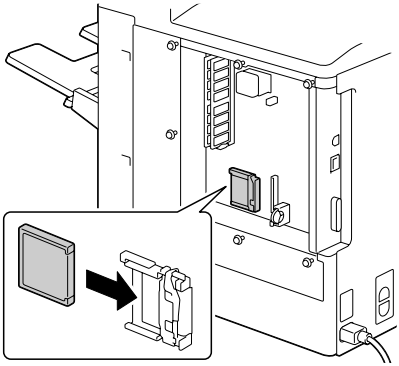
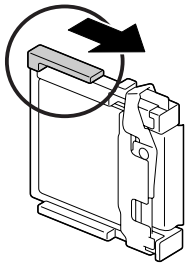
5 Fully insert the CompactFlash card into the appropriate slot. When the CompactFlash card is correctly inserted, the button on the top side of the slot (circled in the illustration) slightly pops out.

Before removing the CompactFlash card, press in this button.



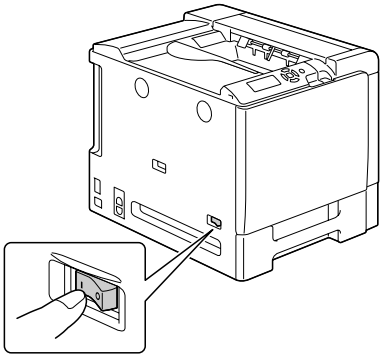


6 Reinstall the panel and tighten the seven screws.

7 Attach the rear cover.

8 Reconnect all interface cables.

9 Reconnect the power cord, and turn on the printer.



10 Declare the Memory card in the Windows printer driver (Properties/Configure tab).

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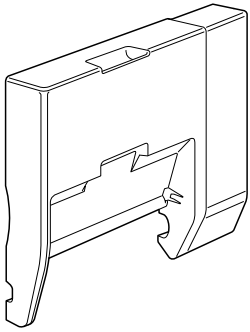
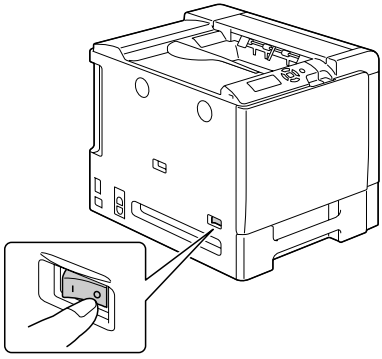
Duplex Option

Duplex (double-sided) printing can be performed automatically with the duplex option and enough memory installed. See “Duplexing” on page 132.

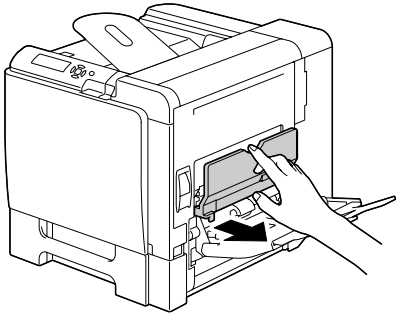


Installing the Duplex Option

1 Turn off the printer.



2 Remove the cover on the right side cover.



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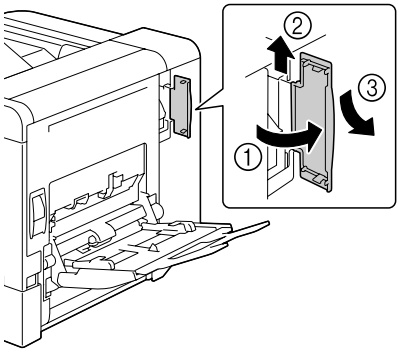
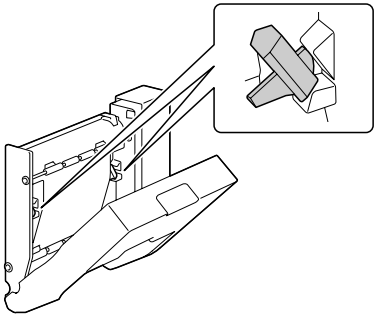
3 Remove the door at the side of the right side cover.

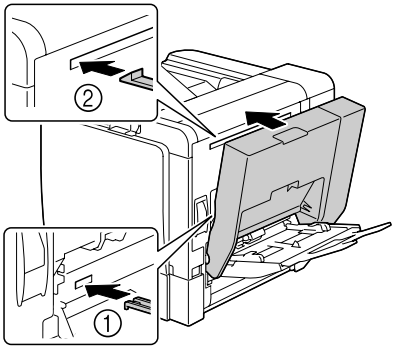


4 Prepare the duplex option.

Before installing the duplex option, open the duplex cover, and then check that the knob is positioned as shown in the illustration. Then, close the duplex cover.



5 Attach the duplex option, as shown in the illustration.



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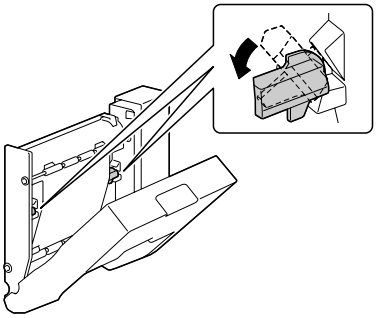
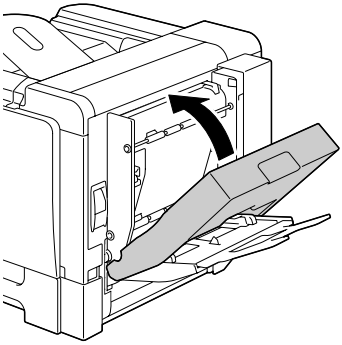
6 Open the duplex cover, and then turn both knobs counterclockwise until they are horizontal to secure the duplex option to the right side cover.



7 Then, close the duplex cover.



8 Declare the Duplex Unit in the Windows printer driver (Properties/Configure tab).

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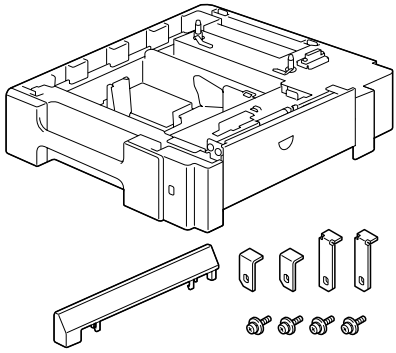
Lower Feeder Unit

You can install up to two optional lower feeder units (Trays 3 and 4). Each lower feeder unit increases your printer's media feed capacity by 500 sheets.

Kit Contents

- Lower feeder unit with a tray (500-sheet capacity)
- Four metal brackets
  - Two front brackets
  - Two rear brackets
- Four securing screws
- Transport guide (used only for Tray 3)



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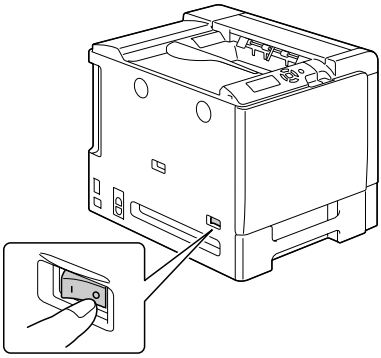
Installing a Lower Feeder Unit

Note

Since consumables are installed in the printer, be sure to keep the printer level when moving it in order to prevent accidental spills.

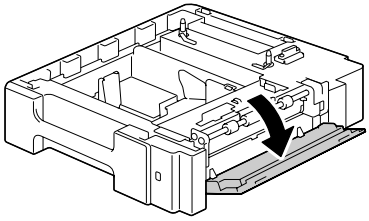
1 Turn off the printer and disconnect the power cord and interface cables.



2 Prepare the lower feeder unit.

Be sure to place the lower feeder unit on a level surface.

3 Open the right side cover of the lower feeder unit.



The right side cover of the lower feeder must be opened before the feeder can be installed onto the printer.

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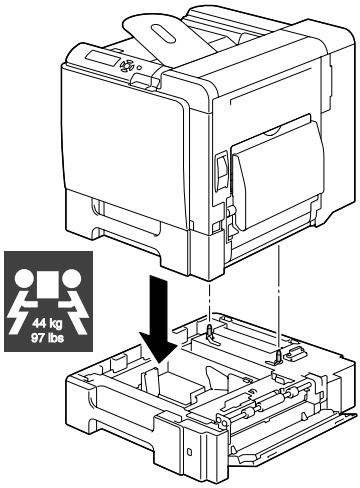
4 With another person's help, place the printer on top of the lower feeder unit, making sure that the positioning pins on the lower feeder unit correctly fit into the holes on the bottom of the printer.

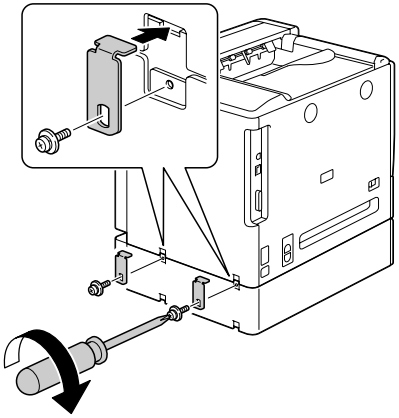


If two lower feeder units are to be installed, stack the two lower feeder units and secure them together before installing them to the printer.

WARNING!

This printer weighs approximately 44 kg (97.0 lb) when it is fully loaded with consumables. The printer must be lifted by two people.

5 Using a screwdriver, install the two securing brackets at the rear of the printer.



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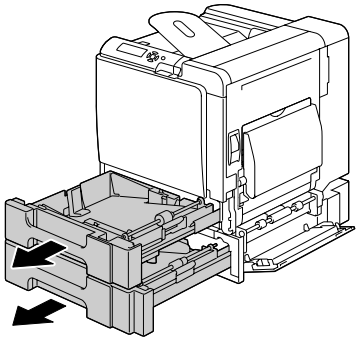
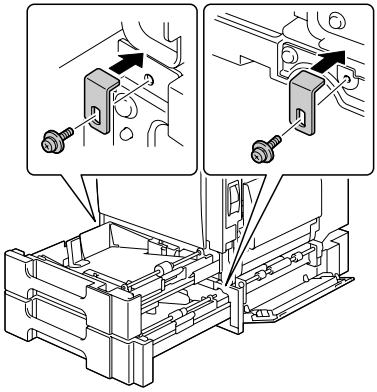
6 Pull out the trays.



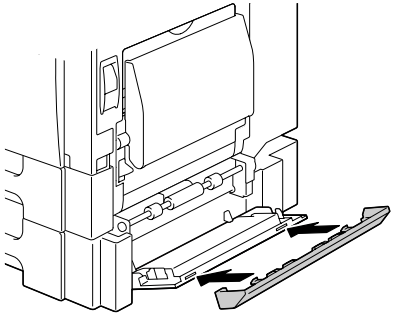
7 Install the two securing brackets at the front of the printer.



8 Close the trays.

9 Attach the transport guide to the right door of Tray 3.

It is not necessary to attach the transport guide to the right door of Tray 4.



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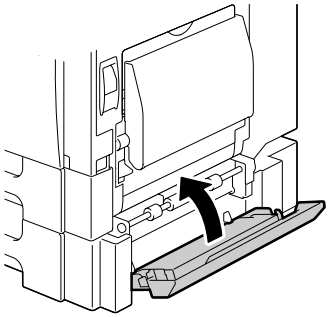
10 Close the right side cover of the lower feeder unit.



11 Declare Paper Source Unit 3/4 in the Windows printer driver (Properties/ Configure tab).

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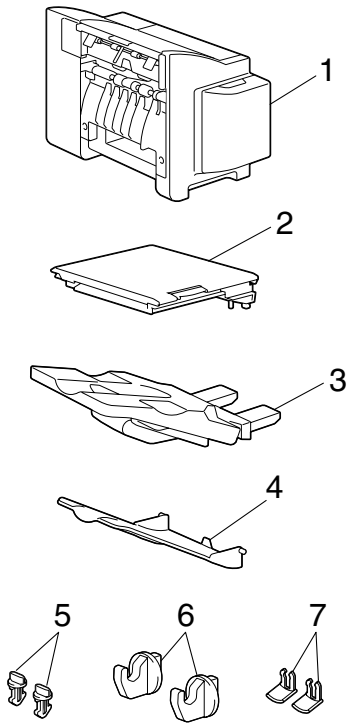
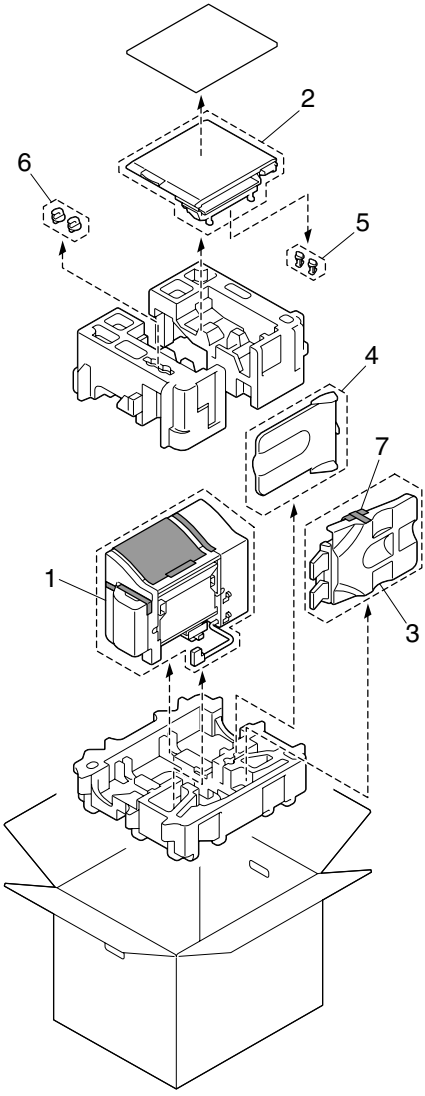
Staple Finisher

When the staple finisher is installed, job separation, offset and staple printing can be performed.

Accessories

1 Staple Finisher
2 Relay Unit
3 Main output tray
4 Sub output tray
5 Hooks (For securing the relay unit)
6 Hooks (For installing the staple finisher)
7 Mounting clips for the main output tray





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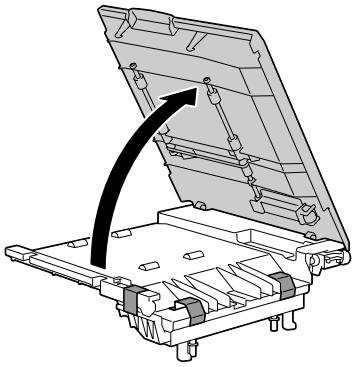
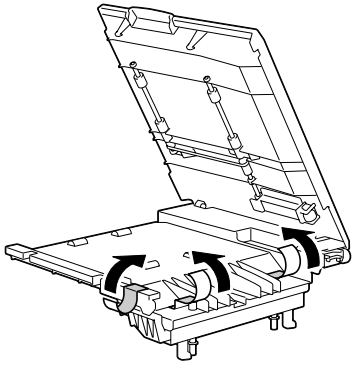
Unpacking and installing the Staple Finisher

1 Open the box for the optional finisher.

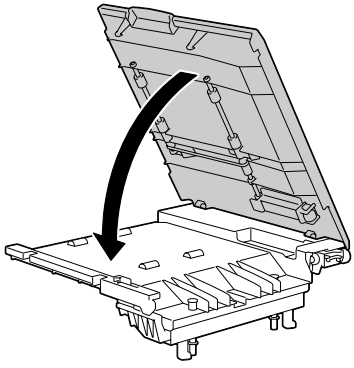
2 Unpack the relay unit, and then open the relay unit cover



3 Remove all packing tape.



4 Close the relay unit cover.



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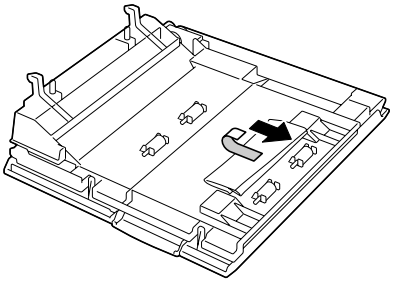
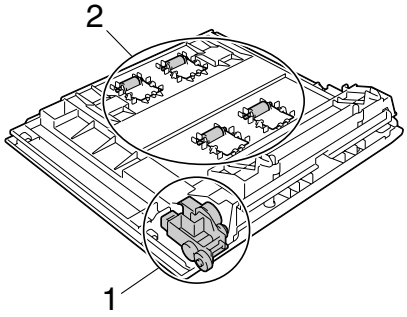
5 Remove the two mounting hooks in the bag taped to the back of the relay unit.

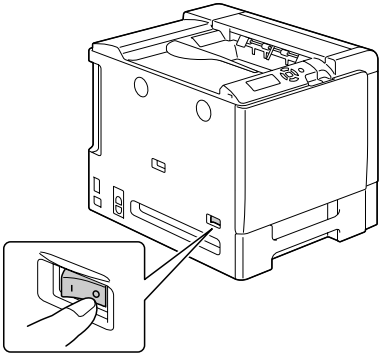


Since the gears (1) are exposed, be careful not to grab them or hit them.

Since the performance of the transport roller and springs (2) may be greatly reduced if they are firmly grabbed, treat them with special care.



6 Turn off the machine and disconnect the power cord and interface cables.



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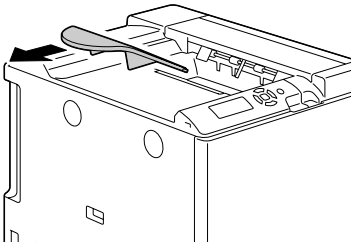
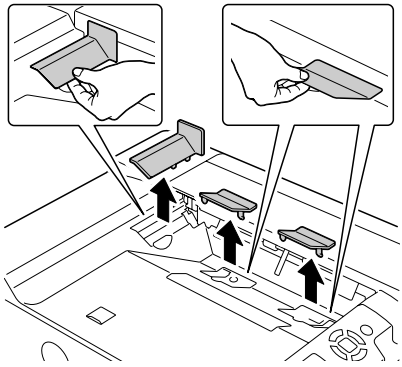
7 Remove the output tray from the machine.

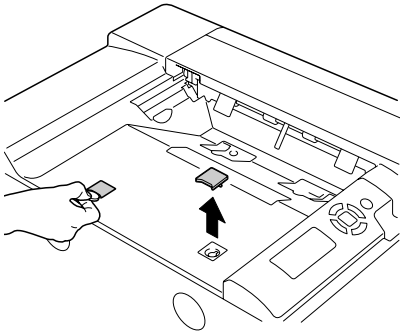
While lightly bending the output tray as much as possible, remove the output tray.



8 Remove the inside cover (three locations) at the top of the machine.



9 Use a coin to remove the front cover (two locations) at the top of the machine.



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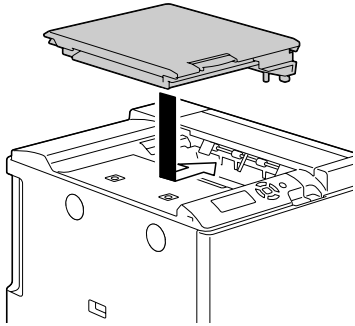
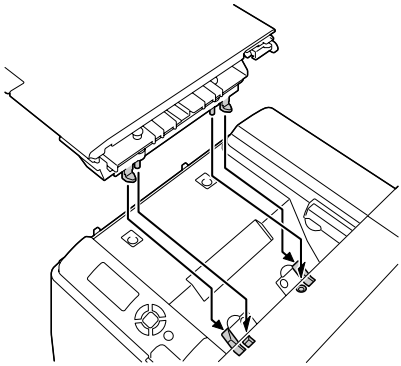
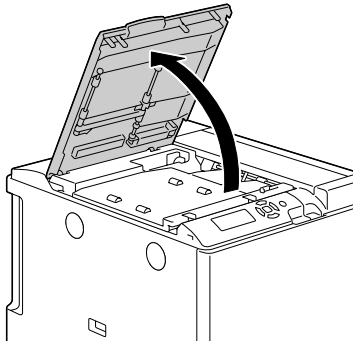
10 Install the relay unit on the machine.





11 Open the relay unit cover.



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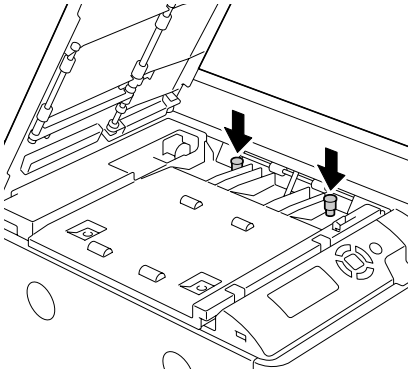
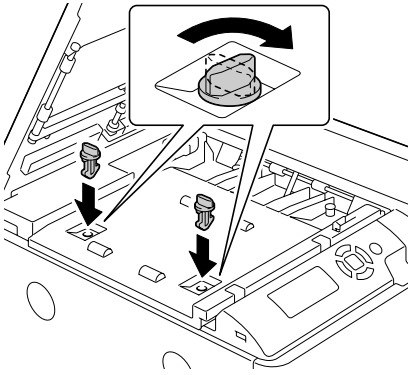
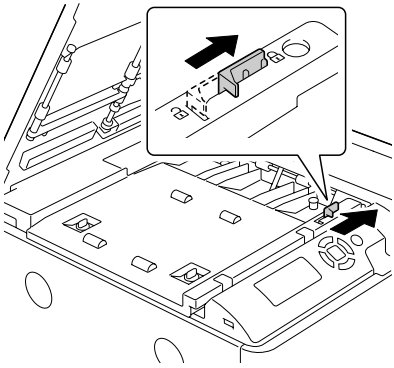
12 With your fingers, press the left and right pins. Make sure that the pins are pushed in.



13 Secure the relay unit on the machine with the two mounting hooks.



14 Lock the relay unit lever.



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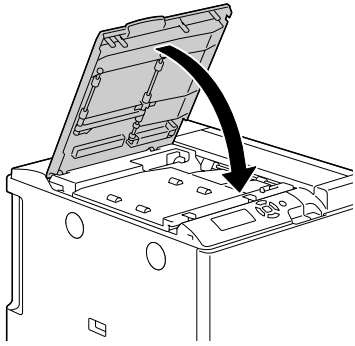
15 Close the relay unit cover.

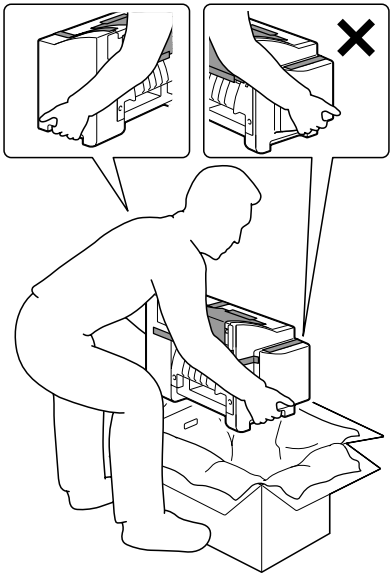
16 Remove the two finisher-mounting hooks from the box.

17 Remove the main output tray and the sub output tray, and then unpack them.

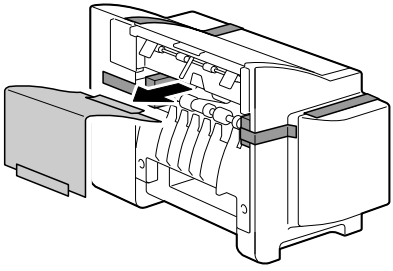


18 Hold the left and right sides of the staple finisher and lift it out of the box.

When grabbing the staple finisher, be sure to grab the areas indicated in the illustration.



19 Remove the sheet from the staple finisher.



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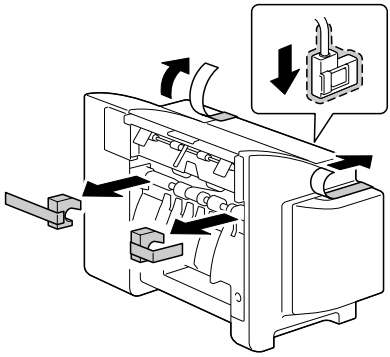
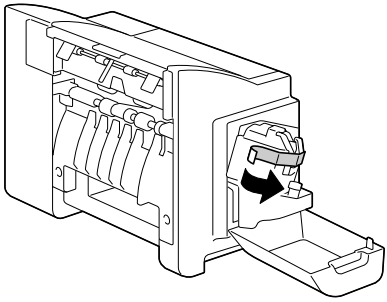
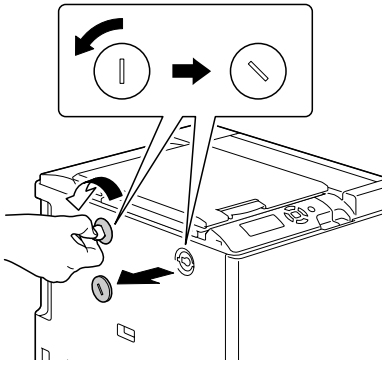
20 Remove the packing tape and packing materials from the connectors and the outside of the staple finisher.



21 Open the stapler cover, and then remove the tape securing the staple cartridge.



22 Use a coin to remove the cover (two locations) on the left side of the machine.



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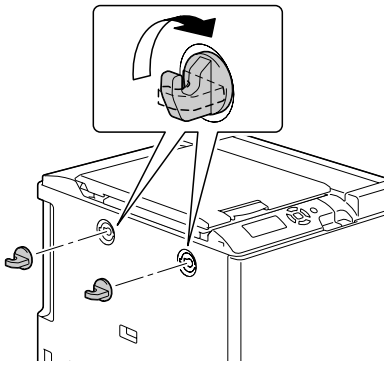
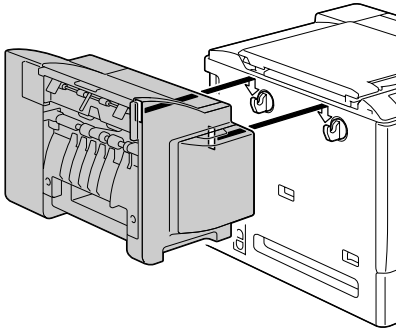
23 Secure the two mounting hooks on the staple finisher to the left side of the machine.



24 Align the side of the relay unit with that of the staple finisher, and then hook them onto the finisher to install them.



When grabbing the staple finisher, be sure to grab the areas indicated in the illustration.

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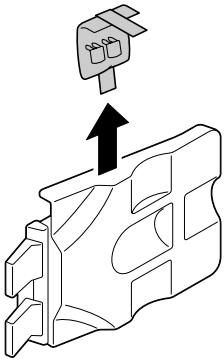
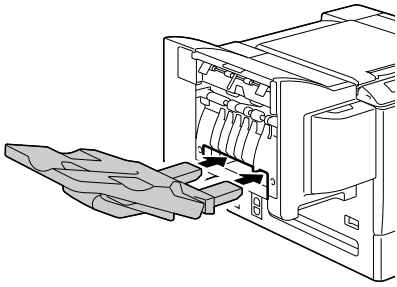
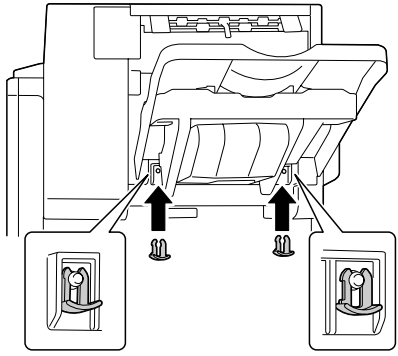
25 Remove the two mounting clips from the main output tray.



26 Insert the main output tray.



27 Secure the main output tray with the mounting clips.



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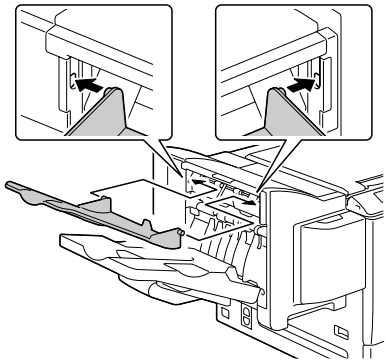
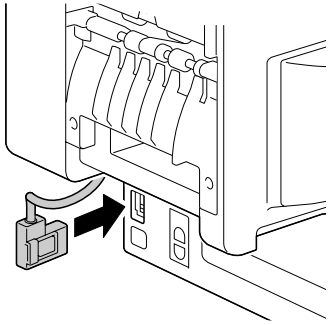
28 Install the sub output tray.



29 Insert the connector on the finisher into the connector on the machine.

30 Reconnect the power cord, and turn on the machine.

31 Declare the staple finisher in the printer driver (Properties/Configure tab).



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Appendix A

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Technical Specifications

Printer

Type	Desktop Tandem Full Color A4 laser beam printer
Print system	Electro photographic Printing System (4colors/toner bottle + print unit of supply type)
Exposure system	4 laser diode and 1 polygon mirror
Developing system	Mono-component SMT
Resolution	600 dpi × 600 dpi × 4 bits
First print	Simplex Monochrome/Full color: 16 seconds for A4 (Plain Paper) Duplex (double-sided) Monochrome/Full color: 20.5 seconds for A4/Letter (Plain Paper)
Print speed	Simplex Monochrome/Full color: 35 pages per minute for A4 (Plain Paper) 37 pages per minute for Letter (Plain Paper) Duplex (double-sided) Monochrome: 23.5 pages per minute for A4/Letter (Plain Paper) Full color: 20.5 pages per minute for A4/Letter (Plain Paper)
Media sizes	Tray 1 (Manual feed tray) Paper width: 92 to 216 mm (3.6 to 8.5") Paper length: 148 to 1200 mm (5.8 to 47.2") Tray 2 A4/Letter Trays 3 and 4 (Optional) B5 (JIS) - Legal

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Paper/Media	• Plain paper (60 to 90 g/m^2; 16 to 24 lb bond) • Recycled (60 to 90 g/m^2; 16 to 24 lb bond) • Transparencies • Envelopes • Letterhead • Label • Thick 1 (91 to 150 g/m^2) • Thick 2 (151 to 210 g/m^2) • Postcard • Glossy 1 (100-128 g/m^2) • Glossy 2 (129-158 g/m^2)
Input capacity	Tray 1 (Manual feed tray) Plain/Recycled paper: 100 sheets Envelope: 10 envelopes Label/Postcard/Thick 1/Thick 2/Glossy 1/ Glossy 2/Transparency/Letterhead: 20 sheets Banner paper: 1 sheet Tray 2 Plain/Recycled paper: 500 sheets Tray 3 and 4 (Optional) Plain/Recycled paper: 500 sheets
Output capacity	Output tray: 250 sheets (A4, Letter)
Finisher output capacity	Main output tray: 500 sheets (A4 or Letter) Sub output tray: 100 sheets (A4 or Letter)
Operating temperature	10 to 35°C (50 to 95°F)
Operating humidity	15 to 85%
Power supply	120 V, 50 to 60 Hz 220 to 240 V, 50 to 60 Hz
Power consumption	120 V: 1400 W or less 230 V: 1400 W or less Energy Saver Mode: 18 W or less
Amperage	110 to 127 V: 12 A or less 220 to 240 V: 6.5 A or less
Warming-up time	Avg. 52 seconds (time to return to Ready mode from Energy Saver mode)
Acoustic Noise	Printing: 56 dB or less Standby: 39 dB or less
External dimensions	Height: 420 mm (16.5") Width: 420 mm (16.5") Depth: 526 mm (20.7")

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Weight	Printer: approximately 33.4 kg (73.7 lb) (without consumables) Toner cartridge: Standard in-box cartridge = 1.65 kg (3.64 lb)(Y, M, C)/ 1.68 kg (3.70 lb)(K) Replacement cartridge (High-Capacity)= 1.65 kg (3.64 lb) (Y, M, C)/ 1.68 kg (3.70 lb) (K)
Interface	USB 2.0 (High Speed) compliant, 10Base-T/ 100Base-TX/1000Base-T Ethernet, Parallel
Standard memory	256 MB

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Consumable Life Expectancy Chart

User-Replaceable

Item	Average Life Expectancy
Toner cartridge	**Standard in-box Cartridge**: Printed within a constant environment 12,000 pages or more (Continuous) Printed outside of a constant environment 9,600 pages or more (Continuous) **Replacement Cartridge (High-Capacity):** Printed within a constant environment 12,000 pages or more (Continuous) Printed outside of a constant environment 9,600 pages or more (Continuous)
Print unit	30,000 pages (Continuous)
Waste toner bottle	36,000 pages (Monochrome) (Continuous) 9,000 pages (Full color) (Continuous)
Transfer roller	120,000 pages (Continuous)
Ozone Filter (Bundle with transfer roller)	120,000 pages
Transfer belt unit	120,000 pages (Continuous)
Note: A constant environment is one with a temperature between 15 °C [59 °F] and 25 °C [77 °F] and humidity between 35% and 70%.	

The values shown for the toner cartridge and waste toner bottle indicate the number of pages for simplex printing using A4/Letter-size media with 5% coverage.
The actual life may differ (be shorter) depending on the printing conditions (coverage, paper size, etc.), differences in the printing method, such as continuous printing or intermittent printing (when print jobs of one page are often printed), or the type of paper used, for example, thick paper. In addition, the life will be affected by the temperature and humidity of the operating environment.

Service-Replaceable

Item	Average Life Expectancy
Fuser unit	150,000 pages (Continuous)
Media feed roller	300,000 pages

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Our Concern for Environmental Protection

As an ENERGY STAR® Partner, we have determined that this machine meets the ENERGY STAR Guidelines for energy efficiency.

What is an ENERGY STAR product?

An ENERGY STAR product has a special feature that allows it to automatically switch to a “low-power mode” after a period of inactivity. An ENERGY STAR product uses energy more efficiently, saves you money on utility bills and helps protect the environment.

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